MIAMI-DADE COUNTY
DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/building

NOTICE OF ACCEPTANCE (NOA)

Verot Oaks Building Blocks, Inc.
4400A Ambassador Caffery Parkway # 154
Lafayette, LA 70508

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "VOBB " Concrete Block Wall System

APPROVAL DOCUMENT: Drawing titled "VOBB Drystack Concrete Block wall", sheets 1 through 18 of 18, prepared by Lewis Consulting Services, Inc., last revision dated August 16, 2011, signed and sealed by Locke D. Bowden, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each block shall bear a permanent label with the manufacturer's name or logo and the Miami-Dade County logo.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**

MIAMI-DADE COUNTY APPROVED

Helmy A. Makar
12/01/2011

NOA No. 10-0816.19
Expiration Date: 12/01/2016
Approval Date: 12/01/2011

Verot Oaks Building Blocks, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing titled "VOBB Drystack Concrete Block wall", sheets 1 through 18 of 18, prepared by Lewis Consulting Services, Inc., last revision dated August 16, 2011, signed and sealed by Locke D. Bowden, P.E., on September 02, 2011.*

B. TESTS

1. *Test report on 6" reinforced Masonry Wall System, per TAS 201, TAS 202, TAS 203, and ASTM E-72, prepared by Fenestration Testing Laboratory, Inc., Report No. 5603, dated 06/11/2009, signed and sealed by Julio E. Gonzalez, P.E.*

C. CALCULATIONS

1. *VOBB Wall Component System Evaluation, Report dated July 20, 2010, revised on July 28, 2010, pages 1 through 5 of 5, signed and sealed by Locke Bowden, P.E.*
2. *Compliance letter, dated October 04, 2011, 2 pages, signed and sealed by Locke Bowden, P.E., on October 05, 2011.*

D. QUALITY ASSURANCE

1. *By Miami-Dade Building Department of Permitting, Environment, and Regulatory Affairs.*

E. MATERIAL CERTIFICATION

1. *Letter Certifying Independence, by GFA International, Inc., dated August 05, 2010, signed by Thomas Ortner.*
2. *Report of Concrete Core Compressive Strength Test by Professional Services Industries, Inc. (PSI), dated August 25, 2009, signed and sealed by Ruben E. Enriquez, P.E.*

Helmy A. Makar, P.E., M.S.
PERA, Product Control Unit Supervisor
NOA No. 10-0816.19
Expiration Date: 12/01/2016
Approval Date: 12/01/2011

GENERAL NOTES

1. THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) APPLIES ONLY TO REINFORCED CONCRETE BLOCK WALL SYSTEM INDICATED AND SPECIFIED ON THIS DRAWING AND HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2007 EDITION OF THE FLORIDA BUILDING CODE WITH 2009 SUPLLEMENTS.
DESIGN WIND LOADS SHALL BE DETERMINED IN ACCORDANCE WITH SECTION 1620 OF THE FLORIDA BUILDING CODE. DESIGN LIVE AND DEAD LOADS SHALL BE DETERMINED IN ACCORDANCE WITH SECTIONS 1612 AND 1616 OF THE FLORIDA BUILDING CODE.

2. BUILDING DIMENSIONS, DETAILS, UPLIFT, OVERTURNING, WALL, ROOF AND OTHER ELEMENTS WHERE REINFORCED CONCRETE BLOCK WALL SYSTEM WILL BE INSTALLED SHALL BE DESIGNED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT AND REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT IN ORDER TO ISSUE A PERMIT FOR CONSTRUCTION.

3. ALL ELECTRICAL, MECHANICAL DETAILS AND PARTS AND FIRE RATING PROVISIONS ARE NOT PART OF THIS APPROVAL AND SHALL BE PREPARED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER AND REVIEWED BY THE CORRESPONDING BUILDING DEPARTMENT IN ORDER TO ISSUE A PERMIT FOR CONSTRUCTION.

4. REINFORCED CONCRETE BLOCK WALL SYSTEM IS DESIGNED TO BE INSTALLED AS AN EXTERIOR OR INTERIOR BEARING OR NOT BEARING WALL.

4.1 REINFORCED CONCRETE BLOCK WALL SYSTEM HAS BEEN TESTED FOR AIR INFILTRATION, PER ASTM E-283 AND FOR WATER INFILTRATION PER ASTM E-547 AND E-331 (PROTOCOL TAS 202), FOR A WATER PRESSURE OF 10.5 psf.

4.2 THIS REINFORCED CONCRETE BLOCK WALL SYSTEM, SHALL BE LATERALLY SUPPORTED BY A CONCRETE SLAB AND FOUNDATION AT THE BOTTOM AND BY A ROOF SYSTEM AT THE TOP. FOUNDATION AND CONCRETE SLAB FOR REINFORCED CONCRETE WALL SYSTEM AS WELL AS CONNECTION TO ROOF SYSTEM INCLUDING TIE BEAM AND REINFORCEMENTS DESIGN AROUND OPENINGS SHALL BE PERFORMED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT AND REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT IN ORDER TO ISSUE A PERMIT FOR CONSTRUCTION. STRUCTURAL DESIGN SHALL INCLUDE PROVISIONS FOR ALL LOADS DEVELOPED AT THE JOINT BETWEEN REINFORCED CONCRETE BLOCK WALL SYSTEM AND ROOF SYSTEM; MINIMUM f'c FOR FOUNDATION AND CONCRETE TIE BEAM SHALL BE 2863 p.s.i.

4.3 MAXIMUM ALLOWABLES: OBTAINED THROUGH TESTING PERFORMED AS PER TAS 201, 202, 203 AND ASTM E 72, AS PER FENESTRATION TESTING LABORATORY, INC. REPORT#5603.

DESIGN LOADS DETERMINED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER AS PER NOTE #1 ABOVE SHALL PRODUCE NO TENSION, COMPRESSION, RACKING OR TRANSVERSE LOADS THAT MAY EXCEED THE MAXIMUM ALLOWABLES INDICATED BELOW:

LARGE MISSLE IMPACT RESISTANT: 50 FT/sec. MISSILE SPEED
MAXIMUM REINFORCED CONCRETE BLOCK WALL SYSTEM HEIGHT: 16'-6" (FOR SOLID WALLS, SEE SHEETS 3 & 4, FOR WALLS WITH OPENING SEE SHEETS 5, 6, 7, 8 & 9).
MAXIMUM REINFORCED CONCRETE BLOCK WALL SYSTEM WIDTH: UNLIMITED (FOR SOLID WALLS, SEE SHEETS 3 & 4, FOR WALLS WITH OPENING SEE SHEETS 5, 6, 7, 8 & 9).
MAXIMUM COMPRESSION LOAD PER REINFORCED CONCRETE BLOCK WALL SYSTEM: 7440 Lb/ft @ h= 16'-6" & 9120 Lb/ft @ h= 10'-0".
MAXIMUM TENSION LOAD PER REINFORCED CONCRETE BLOCK WALL SYSTEM: 6080 Lb/ft @ h=16'-6" *
MAXIMUM RACKING LOAD PER REINFORCED CONCRETE BLOCK WALL SYSTEM: 2620 Lb/ft @ h=16'-6" *
MAXIMUM LATERAL WIND LOAD FOR REINFORCED CONCRETE BLOCK WALL SYSTEM: +70.0 -75.0 Lb/ft SQUARED FOR h=16'-6" (MAX.) FOR SOLID WALL SEE SHEETS 3 & 4; FOR WALLS WITH OPENINGS SEE SHEETS 5, 6, 7, 8 & 9.
*ONLY REINFORCED CONCRETE BLOCK WALL SYSTEM WITH NO OPENINGS SHALL BE CONSIDERED TO RESIST THE RACKING FORCES, COMPRESSION AND TENSION LOADS. PULL TEST EXHIBIT C = 27,542 LBS., 26,724 LBS., AND 23,548 LBS. FOR FIVE 60" LONG #4 REBARS W/14" EMBEDMENT INTO 12" X 18" X 60" LONG FOOTER.

5. ALL CONCRETE BLOCK UNITS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH 3096 p.s.i. FOR 18" CMU AND 4640 p.s.i. FOR 6" AND 12" CMU.

-CONCRETE BLOCK UNITS SHALL BE MANUFACTURED BY TARMAC, 11000 NW 121 WAY, MEDLEY, FL 33178, OR ANY OTHER SUCH APPROVED FACILITY WHICH BEARS A CERTIFICATE OF COMPETENCY ISSUED BY MIAMI DADE COUNTY BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT/ PRODUCT CONTROL SECTION, IN ACCORDANCE WITH SECTION 2119.3 OF THE FLORIDA BUILDING CODE.

-CONCRETE BLOCK UNIT SHALL CONFORM WITH ASTM C 90 EXCEPT THAT MAXIMUM MOISTURE CONTENT SHALL NOT EXCEED 27.2% OF THE TOTAL ABSORPTION.

-CONCRETE BLOCK UNITS MUST HAVE AN AVERAGE FIRE-RESISTANCE RATING (HOURS) OF 2.00/4.00= HOLLOW CELLS/ SOLID, PER ASTM C 140 AND SECTION 721.3 OF THE FLORIDA BUILDING CODE.

-CONCRETE BLOCK UNITS HAVE BEEN TESTED BY GFA INTERNATIONAL, INC., PER REPORT #09-0418, PER ASTM C 140.

6. ALL GROUT USED AT CELL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 p.s.i. AND SHALL COMPLY WITH SECTION 2122.6.5 OF THE FLORIDA BUILDING CODE FOR GROUT SLUMP AND PLACEMENT AND WITH ASTM C 476, WITH A QUALITY ASSURANCE PROGRAM PER SECTION 2122.1 OF THE FLORIDA BUILDING CODE (SECTION 1.15 OF ACI 580 / ASCE 5 / TMS 402).
GROUTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 2122.6.5.5 OF THE FLORIDA BUILDING CODE. GROUT HAS BEEN TESTED FOR COMPRESSIVE STRENGTH BY PROFESSIONAL SERVICES INDUSTRIES, INC. (PSI) PER TEST REPORT #0395199-2.

7. ALL REBARS USED AT ALL GROUTED CELLS SHALL BE ASTM A615 GRADE 60, AND SHALL COMPLY WITH ACI 318-05 STANDARD.

8. - THIS REINFORCED CONCRETE BLOCK WALL SYSTEM DOES NOT NEED HORIZONTAL OR VERTICAL MORTAR JOINTS BUT ONLY GROUTED CELLS BONDING THE CONCRETE BLOCK UNITS @ EVERY CELL, REINFORCED WITH #4 OR #5 REBARS AS SHOWN ON DETAILS IN THIS DRAWING.
- COMPONENT MATERIALS (REFERRED ON NOTES 4, 5, 6, 7 AND 8) OF REINFORCED CONCRETE BLOCK WALL SYSTEM SHALL BE ASSEMBLED TOGETHER IN A MANNER SUCH THAT QUALITY AND WORKMANSHIP COMPLIES WITH SECTION 2119.1.1 OF THE FLORIDA BUILDING CODE.
- A SPECIAL INSPECTION SHALL FURNISH INSPECTIONS OF WALL SYSTEM AT THE JOB SITE, PER SECTION 2122.4 OF THE FLORIDA BUILDING CODE.

9. THIS REINFORCED CONCRETE BLOCK WALL SHALL INCLUDE STUCCO AS A FINISH ON ITS EXTERIOR FACE TO PREVENT WATER AND AIR INFILTRATION. STUCCO TO BE 3/4" THICK AND SHALL BE APPLIED IN THREE COATS. FIRST COAT OR SCRATCH COAT IS SCRATCHED HORIZONTALLY OR IN CRISSCROSS PATTERN TO PROVIDE A KEY FOR SECOND LAYER.
SECOND COAT OR "BROWN COAT" IS THE SECOND LEVELING COAT APPLIED OVER THE SCRATCH COAT.
FINAL COAT OR "FINISH COAT" MAY BE CASE SMOOTH OR ROUGH FINISH.
STUCCO TO COMPLY WITH SECTION 2510 OF THE FLORIDA BUILDING CODE.
REINFORCED CONCRETE BLOCK LINTEL MAY BE CONSTRUCTED OF ANY COMBINATION OF BLOCKS UNITS①, ②, AND③ INDICATED ON SHEET 2, EXCEPT AT CORNERS (SEE SHEET 10)

10. FOUNDATION REBAR DOWELS MAY BE INSERTED INTO UNCURED CONCRETE FOUNDATION AFTER CONCRETE HAS BEEN POURED. IF INSERTED REBAR DOWEL IS NOT BONDED TO CONCRETE UPON CURING, THEN IT SHALL BE REMOVED, THE HOLE SHALL BE DRILLED & CLEANED, AND AN APPROVED EPOXY SHALL BE USED TO REFASTEN THE REBAR DOWEL.

11. (a) THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS P.A.D. PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT THE SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS P.A.D. WILL BE CONSIDERED INVALID IF MODIFIED.

(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE PROFESSIONAL OF RECORD (P.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. PROFESSIONAL OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.A.D. ENGINEER.

(e) ORIGINAL P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER THAT PREPARED IT.

Approved as complying with the
Florida Building Code
Date 12/01/2011
NOA# 10-0816.19
Miami Dade Product Control
By

SHEET 1
18

P.E. SEAL/SIGNATURE/DATE

9/2/11

VOBB® DRYSTACK CONCRETE BLOCK WALL
VEROT OAKS BUILDING BLOCKS INC.
4400A Ambassador Caffery Parkway
154 Lafayette, LA 70508 337.781.0705
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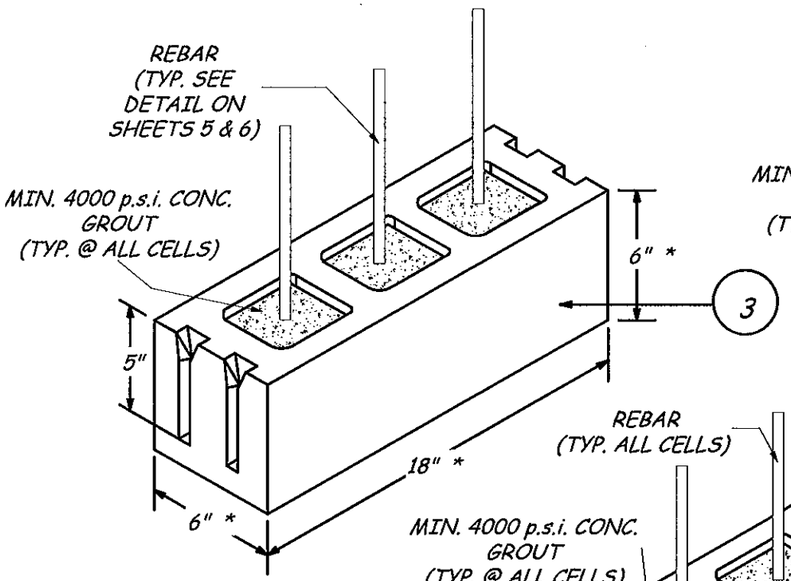
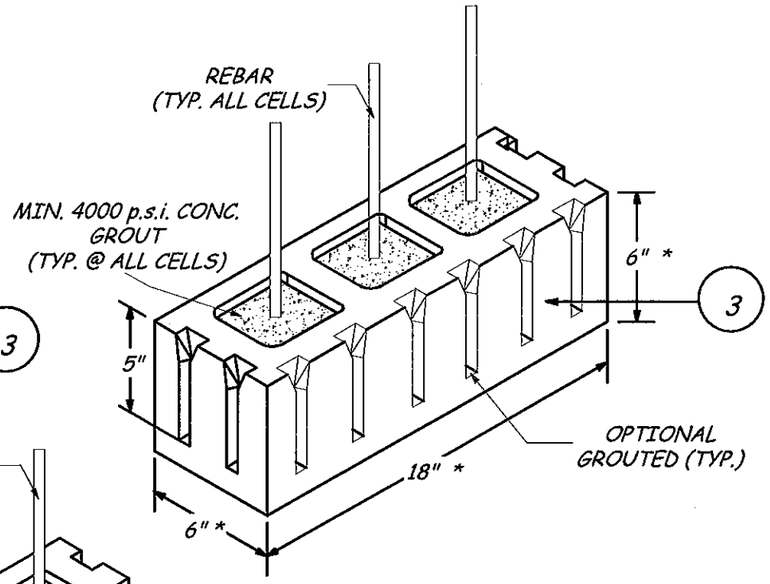
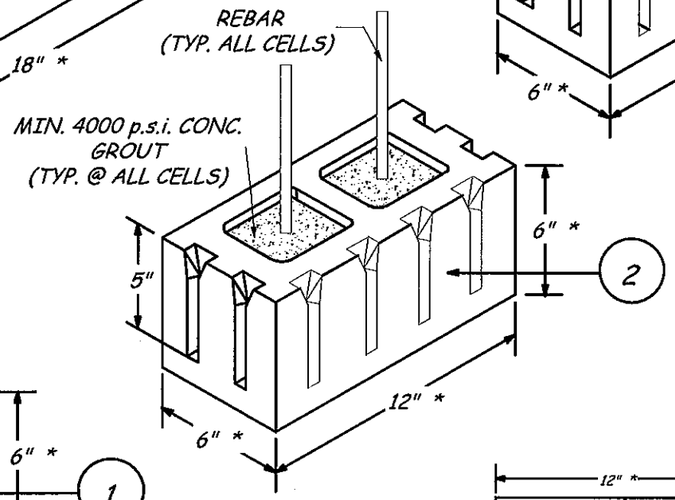
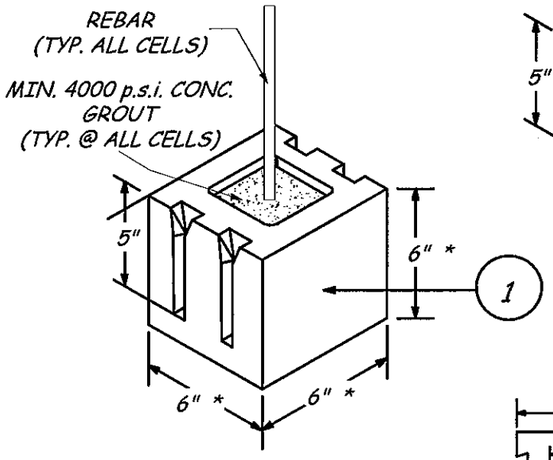
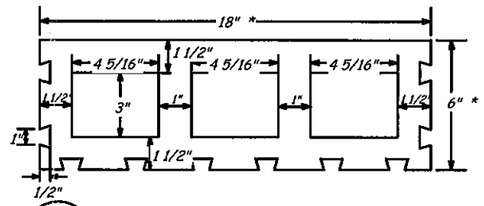
REVISED 08/16/11

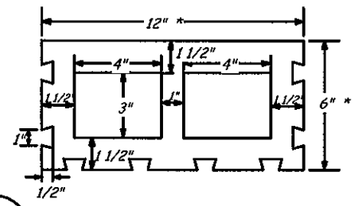


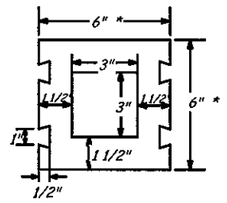












COMPONENT	* NOMINAL DIMENSION	TOLERANCE
1	6"	+/- 0.3"
2	12"	+/- 0.3"
3	18"	+/- 0.3"

NOTE: #4 REBAR MAY BE USED IN WALLS UP TO A HEIGHT OF 10'. #5 REBAR SHALL BE USED IN WALL HEIGHTS UP TO 16'-6".

1 6" BLOCK (PLAN)

2 12" BLOCK (PLAN)

3 18" BLOCK (PLAN)

6" VOBB® CONCRETE BLOCK UNITS IN 6", 12" & 18" NOMINAL LENGTHS

SCALE: 1 3/4" = 1'-0"

Approved as complying with the
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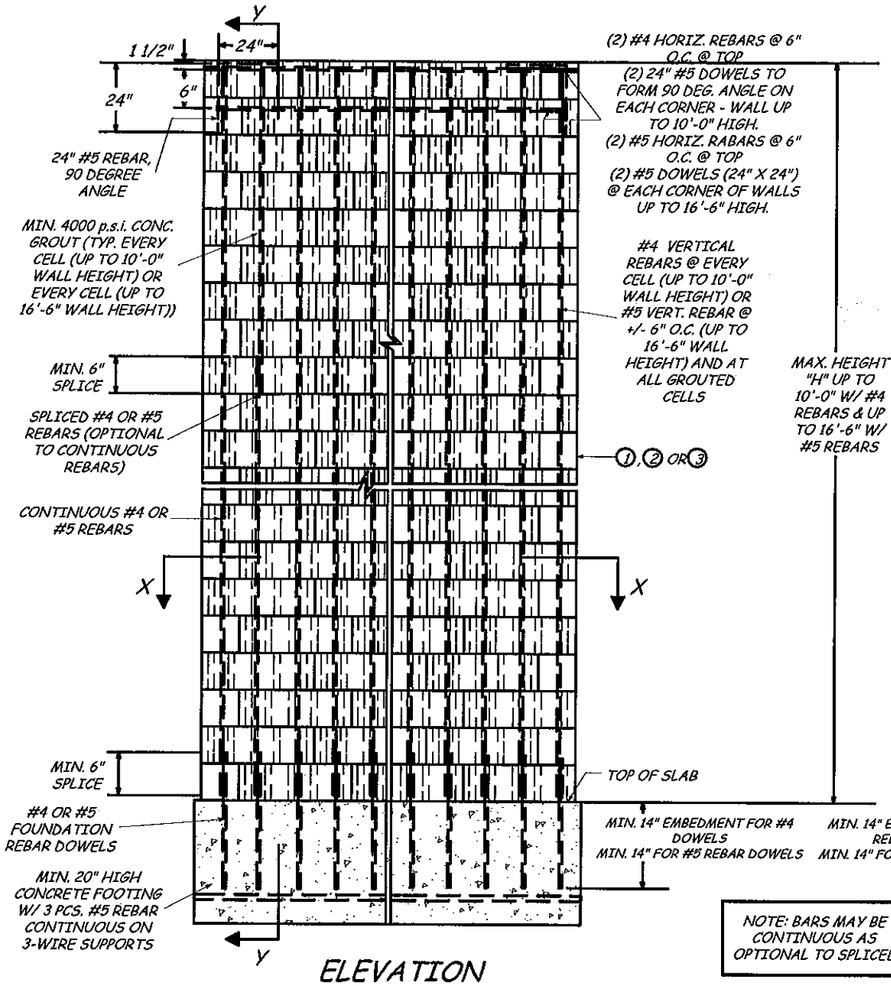
Page Description
Detail Description
P.E. SEAL/SIGNATURE/DATE

Luke D Bordelon 9/12/11

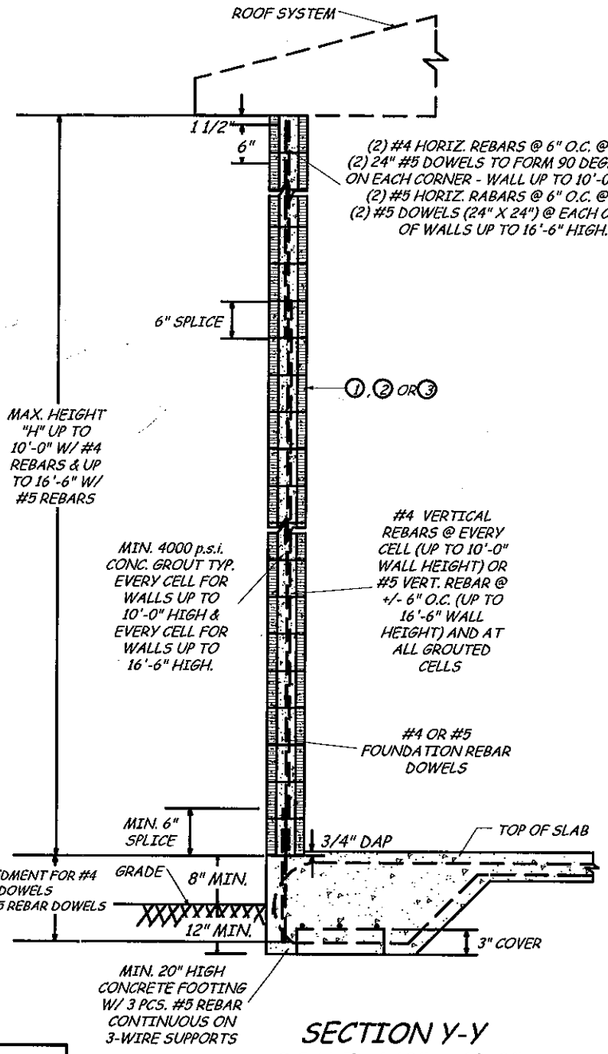


ELEVATION
SCALE: 1/2" = 1'-0"

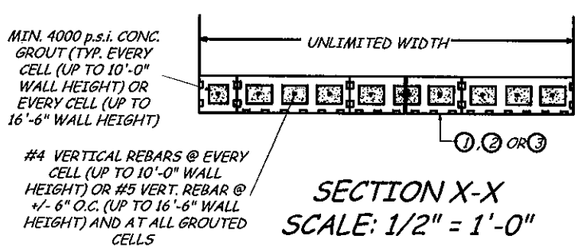
NOTE: BARS MAY BE CONTINUOUS AS OPTIONAL TO SPLICED

NOTE: SAMPLES WERE TESTED USING 16" HIGH CONCRETE FOOTING W/ 3 PIECES #5 REBAR CONTINUOUS ON 3-WIRE SUPPORTS. FOUNDATION PLANS ARE TO BE PREPARED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT BASED ON SITE-SPECIFIC CONDITIONS.

NOTE: FOUNDATION DOWEL REBARS MAY BE PLACED BEFORE OR AFTER CONCRETE FOOTING IS POURED.



SECTION Y-Y
SCALE: 1/2" = 1'-0"



SECTION X-X
SCALE: 1/2" = 1'-0"

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TYPICAL REINFORCED VOBB® CONCRETE BLOCK WALL SYSTEM- CASE 1: SOLID WALL W/ REINFORCED CONCRETE BLOCK TIE BEAM AT TOP

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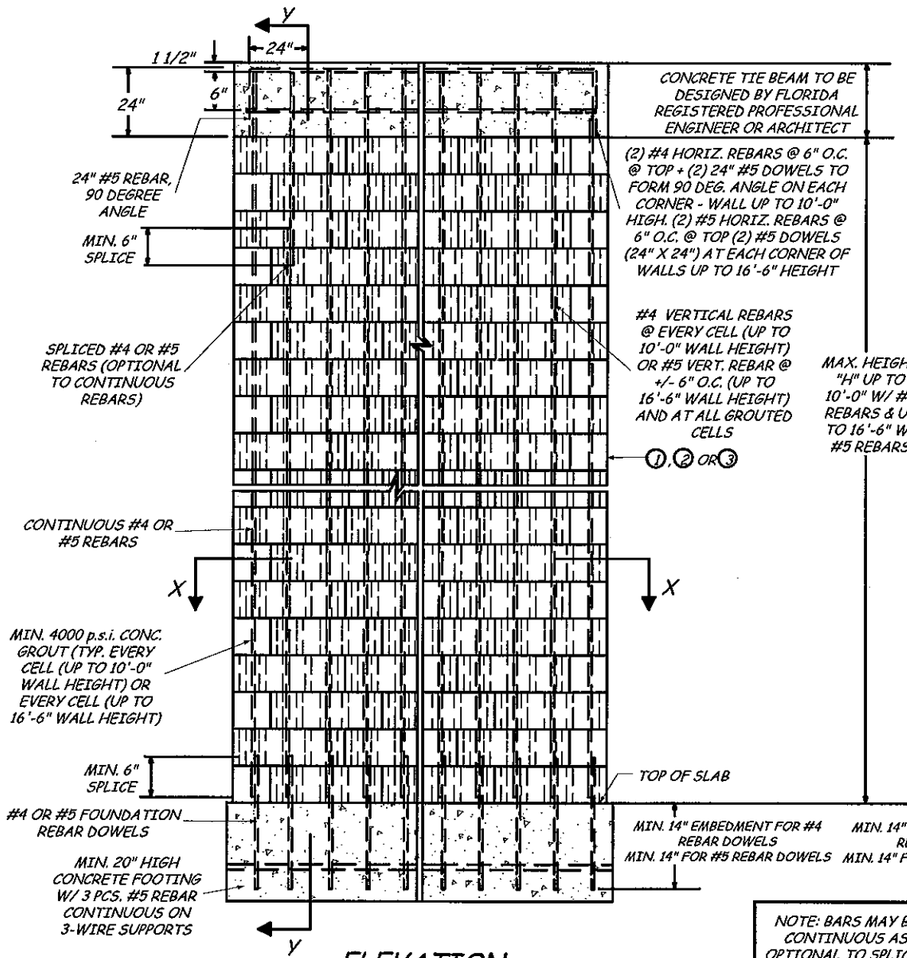
SHEET 3 / 18



ELEVATION
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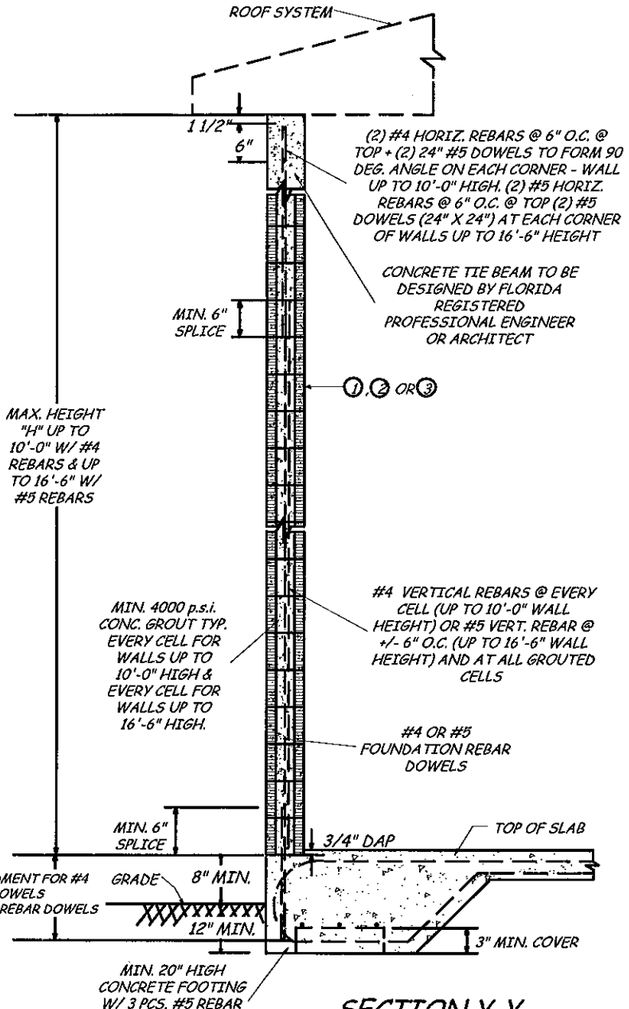

SECTION Y-Y
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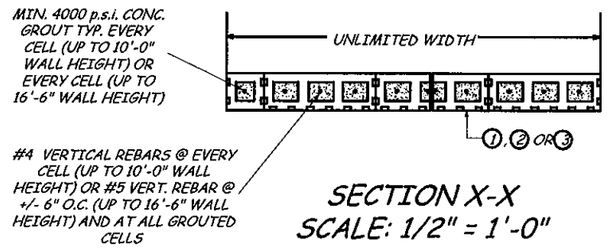

SECTION X-X
SCALE: 1/2" = 1'-0"

NOTE: BARS MAY BE CONTINUOUS AS OPTIONAL TO SPLICED

NOTE: SAMPLES WERE TESTED USING 16" HIGH CONCRETE FOOTING W/ 3 PIECES #5 REBAR CONTINUOUS ON 3-WIRE SUPPORTS. FOUNDATION PLANS ARE TO BE PREPARED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT BASED ON SITE-SPECIFIC CONDITIONS.

NOTE: FOUNDATION DOWEL REBARS MAY BE PLACED BEFORE OR AFTER CONCRETE FOOTING IS POURED.

TYPICAL VOBB® REINFORCED CONCRETE BLOCK WALL SYSTEM- CASE 2: SOLID WALL W/ CONCRETE TIE BEAM AT TOP

Approved as complying with the Florida Building Code
Date 12/01/2011
NOA# 10-0816.19
Miami Dade Product Control
By

SHEET 4
18

P.E. SEAL/SIGNATURE/DATE

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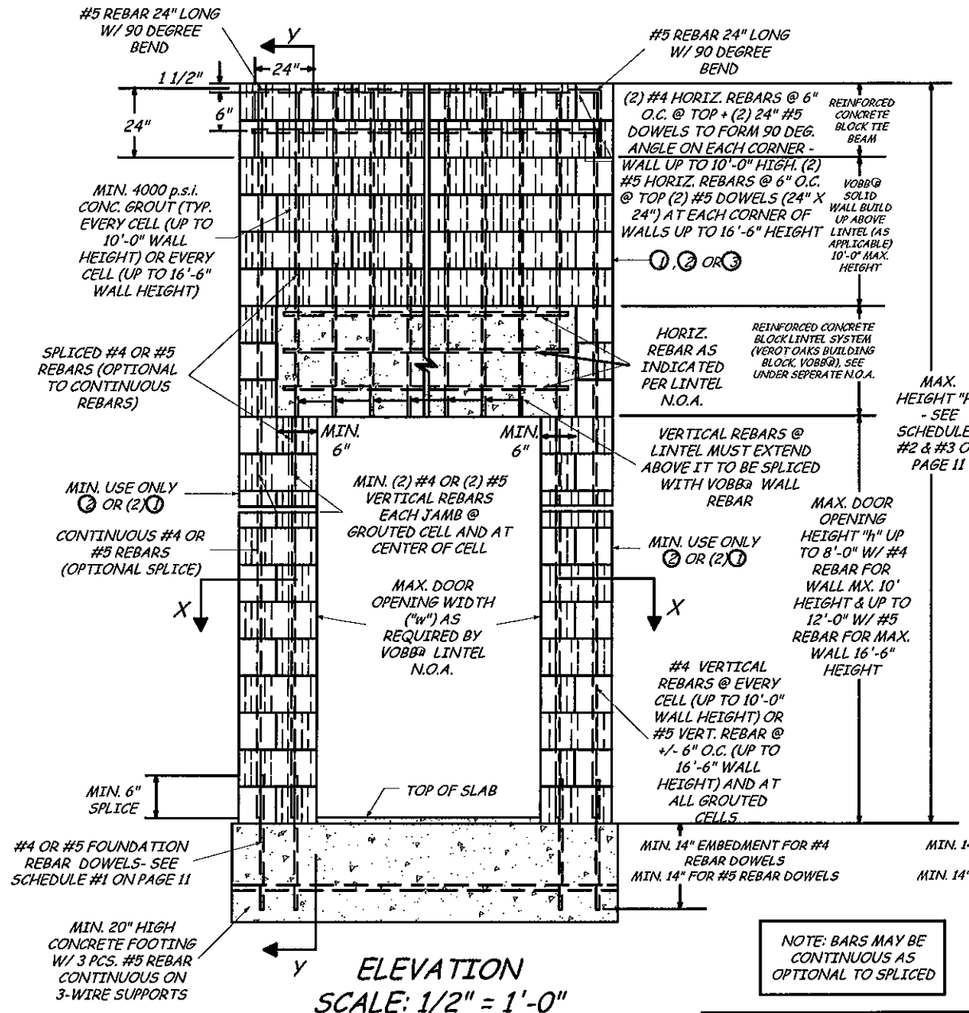

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TYPICAL VOBB® REINFORCED CONCRETE BLOCK WALL SYSTEM- CASE 3: WALL W/ DOOR OPENING W/ REINFORCED CONCRETE BLOCK TIE BEAM AT TOP, INTERMEDIATE VOBB® SOLID WALL (AS APPLICABLE) AND MIAMI DADE COUNTY APPROVED VOBB® REINFORCED CONCRETE LINTEL BELOW

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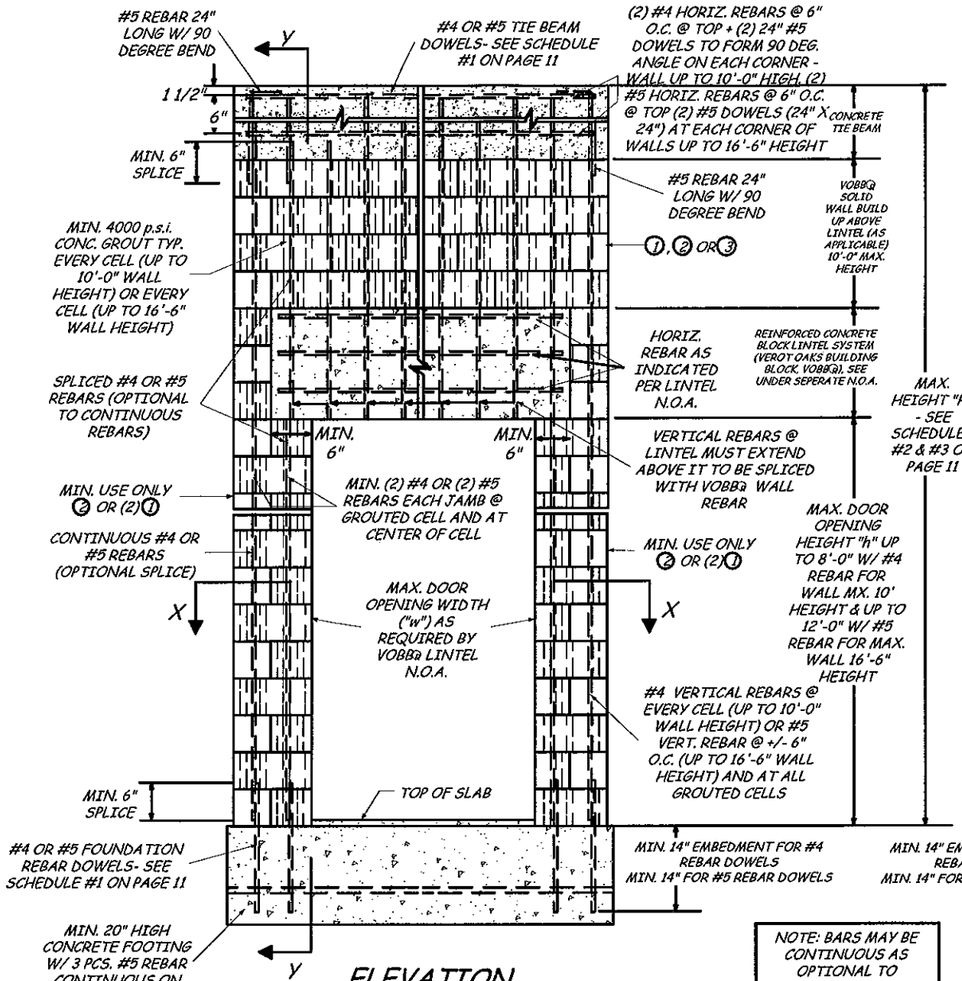
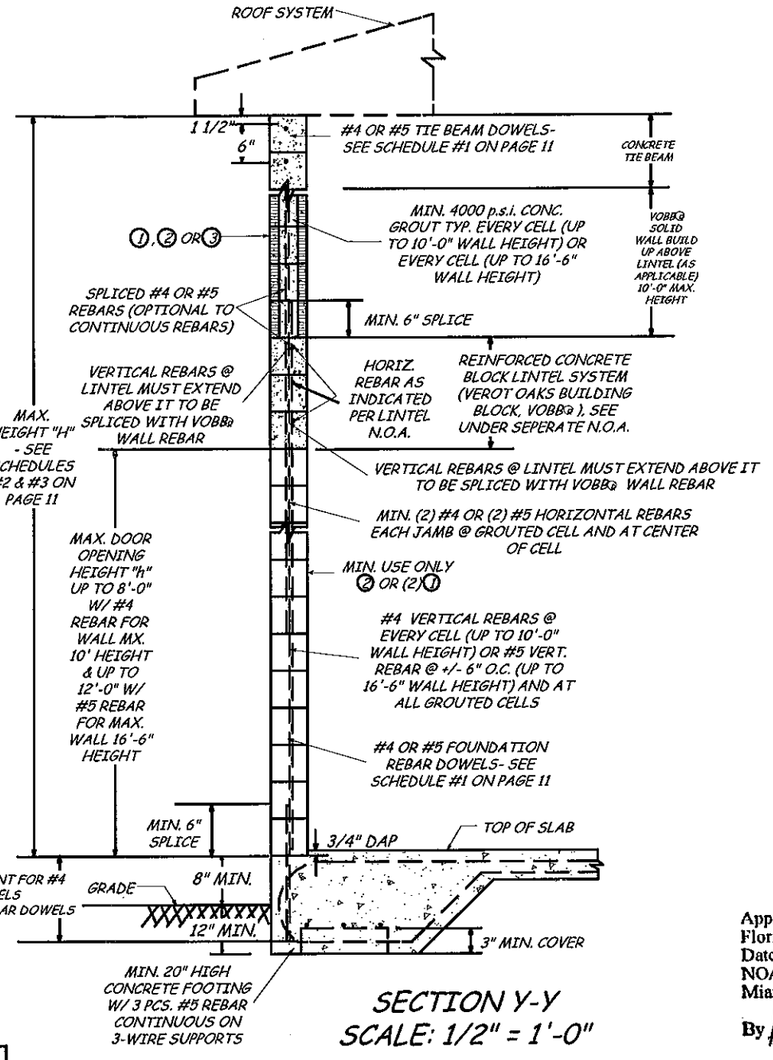
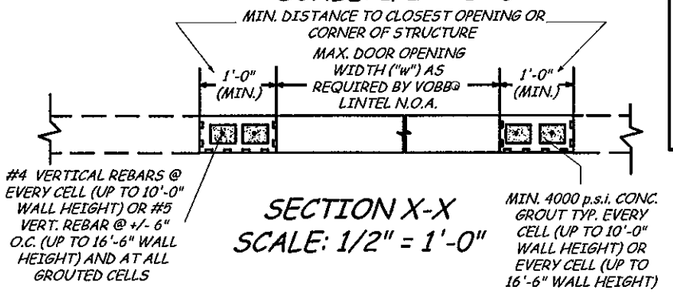
SHEET 5
18



ELEVATION
SCALE: 1/2" = 1'-0"



SECTION Y-Y
SCALE: 1/2" = 1'-0"



SECTION X-X
SCALE: 1/2" = 1'-0"

NOTE: BARS MAY BE CONTINUOUS AS OPTIONAL TO SPLICED

NOTE: SAMPLES WERE TESTED USING 16" HIGH CONCRETE FOOTING W/ 3 PIECES #5 REBAR CONTINUOUS ON 3-WIRE SUPPORTS. FOUNDATION PLANS ARE TO BE PREPARED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT BASED ON SITE-SPECIFIC CONDITIONS.

NOTE: FOUNDATION DOWEL REBARS MAY BE PLACED BEFORE OR AFTER CONCRETE FOOTING IS POURED.

Approved as complying with the Florida Building Code
Date 12/01/2011
NOA# 10-0816.19
Miami Dade Product Control
By

TYPICAL VOBB® REINFORCED CONCRETE BLOCK WALL SYSTEM- CASE 4: WALL W/ DOOR OPENING W/ CONCRETE TIE BEAM AT TOP, INTERMEDIATE VOBB® SOLID WALL (AS APPLICABLE) AND MIAMI DADE COUNTY APPROVED VOBB® REINFORCED CONCRETE LINTEL BELOW

SHEET 6
18

P.E. SEAL/SIGNATURE/DATE

9/12/11

VOBB® DRYSTACK CONCRETE BLOCK WALL
VEROT OAKS BUILDING BLOCKS INC.
4400A Ambassador Caffery Parkway
154 Lafayette, LA 70508 337.781.0705
fax 866.580.8622
www.vobb.com * VOBB@earthlink.net

PREPARED BY:
LEWIS CONSULTING SERVICES, INC.
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(941) 722-8145
LEWCONSULTING@AOL.COM *
LEWISCONSULTINGSERVICES.COM

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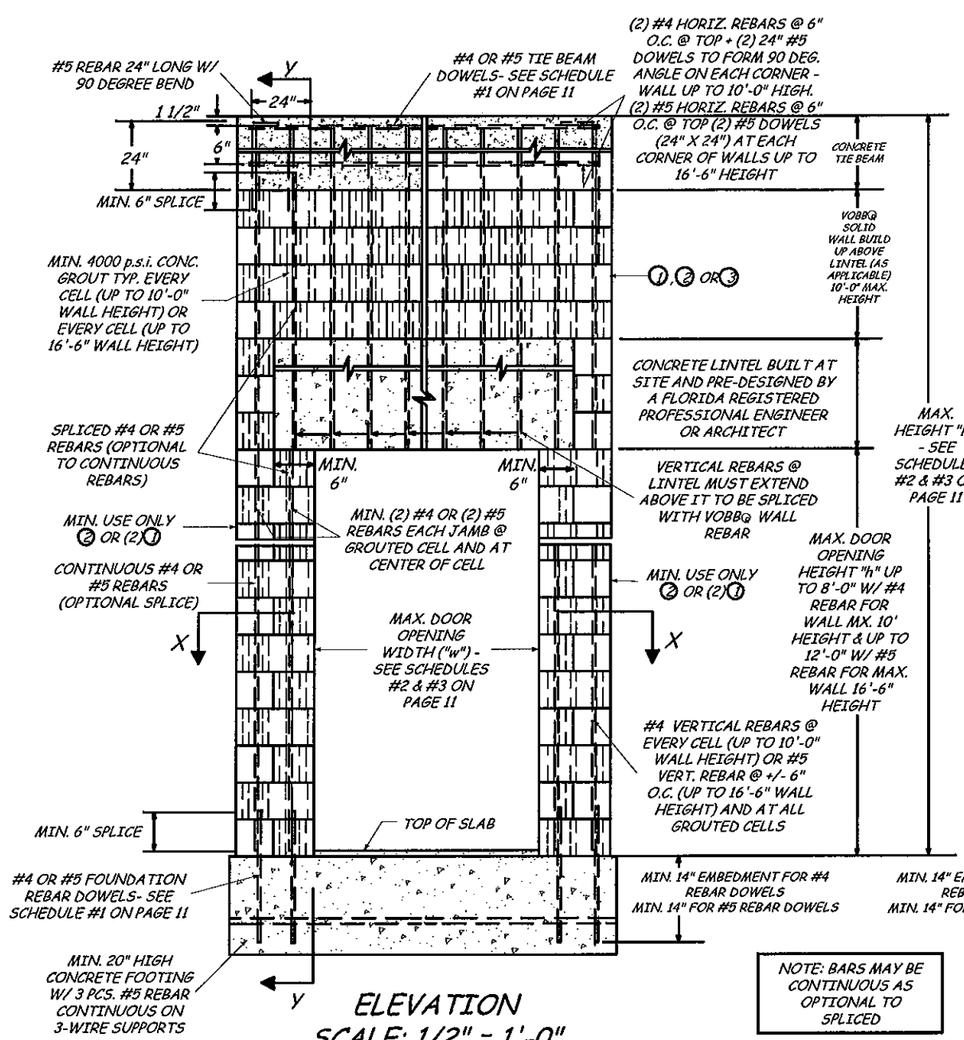

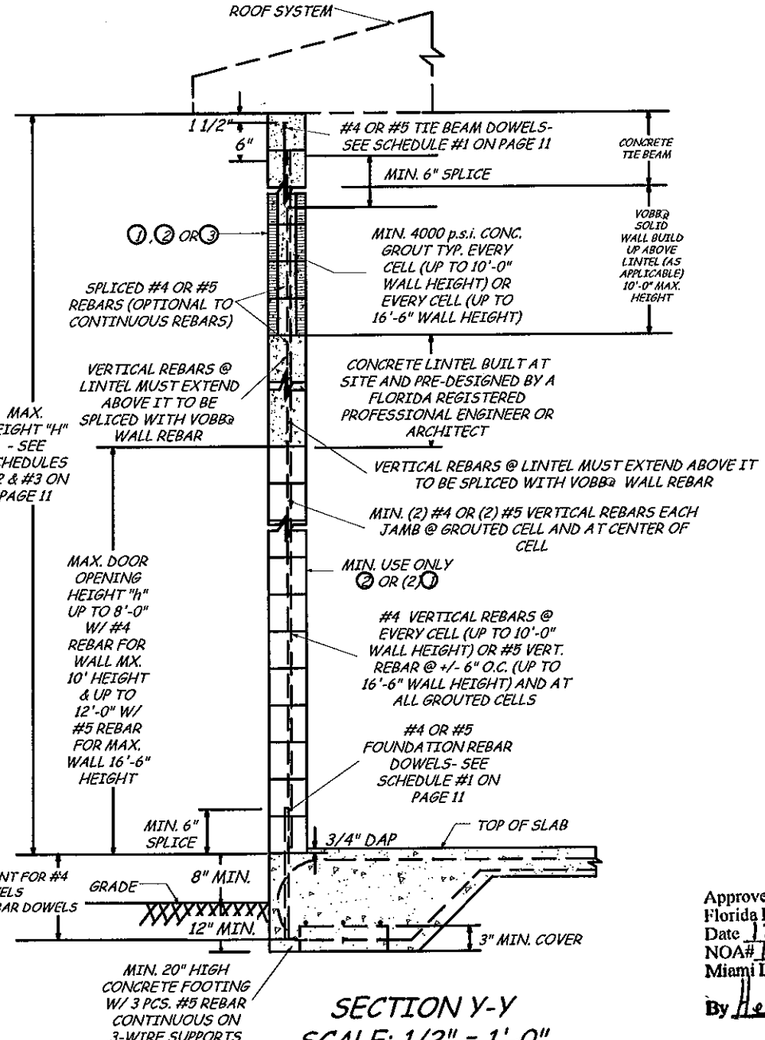

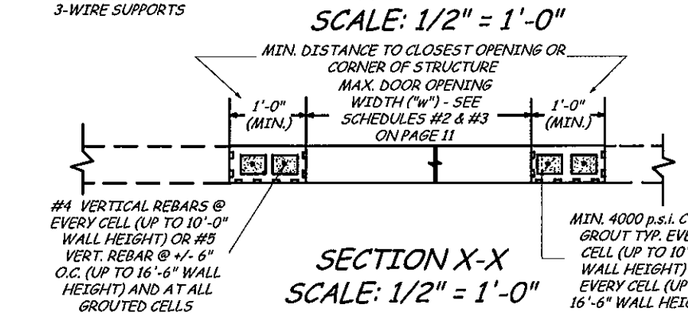

NOTE: BARS MAY BE CONTINUOUS AS OPTIONAL TO SPLICED

NOTE: SAMPLES WERE TESTED USING 16" HIGH CONCRETE FOOTING W/ 3 PIECES #5 REBAR CONTINUOUS ON 3-WIRE SUPPORTS. FOUNDATION PLANS ARE TO BE PREPARED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT BASED ON SITE-SPECIFIC CONDITIONS.

NOTE: FOUNDATION DOWEL REBARS MAY BE PLACED BEFORE OR AFTER CONCRETE FOOTING IS POURED.

Approved as complying with the Florida Building Code
Date 12/01/2011
NOA# 10-0816.19
Miami Dade Product Control
By

TYPICAL VOBB® REINFORCED CONCRETE BLOCK WALL SYSTEM- CASE 5: WALL W/ DOOR OPENING W/ CONCRETE TIE BEAM AT TOP, INTERMEDIATE VOBB® SOLID WALL (AS APPLICABLE) AND MIAMI DADE COUNTY APPROVED REINFORCED CONCRETE LINTEL BELOW

SHEET 7
18

P.E. SEAL/SIGNATURE/DATE

VOBB® DRYSTACK CONCRETE BLOCK WALL
VEROT OAKS BUILDING BLOCKS INC.
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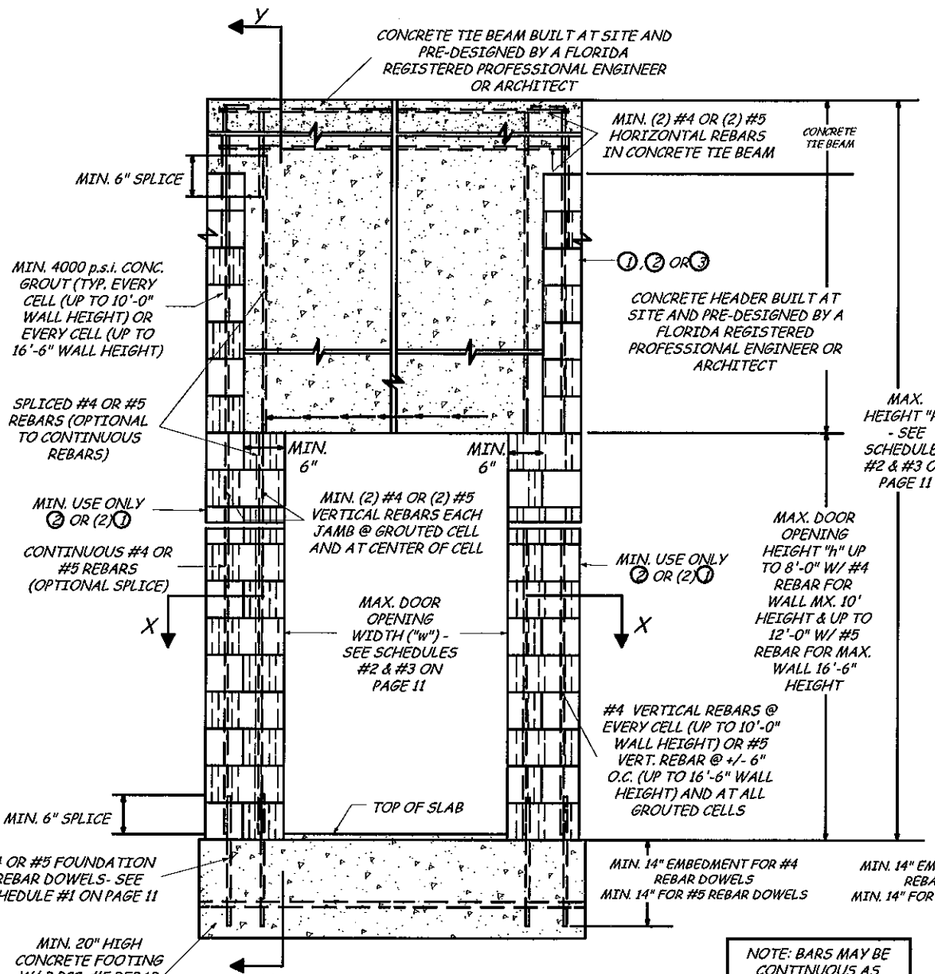
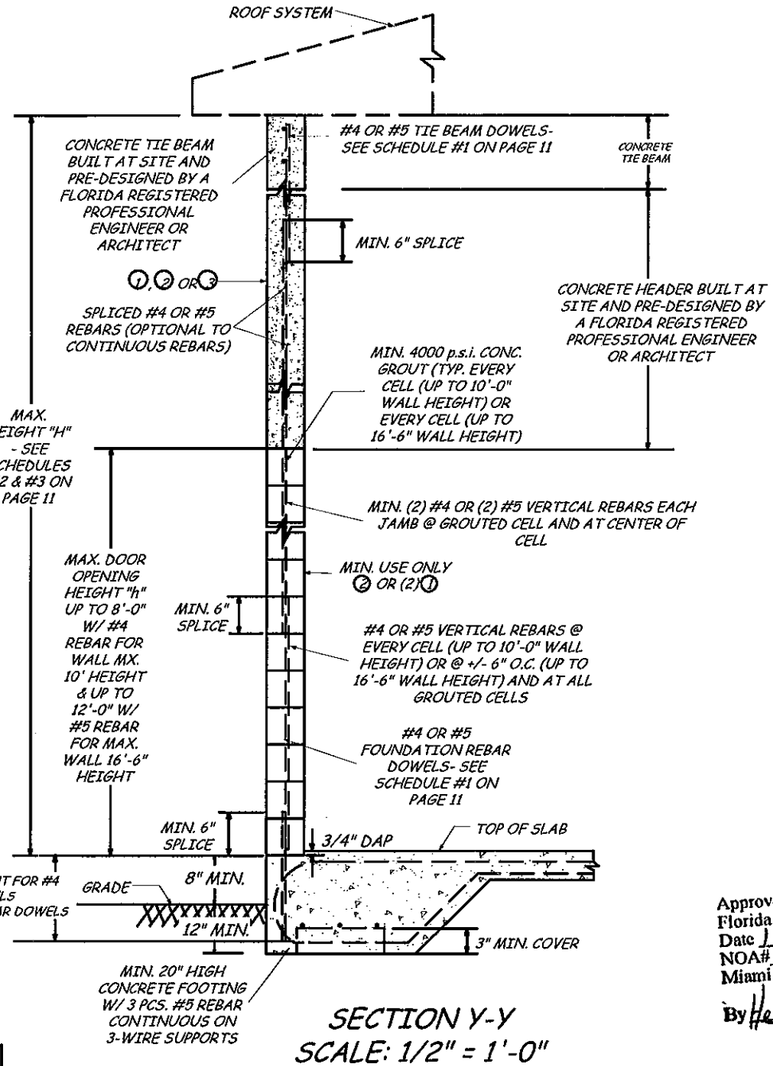


ELEVATION
SCALE: 1/2" = 1'-0"

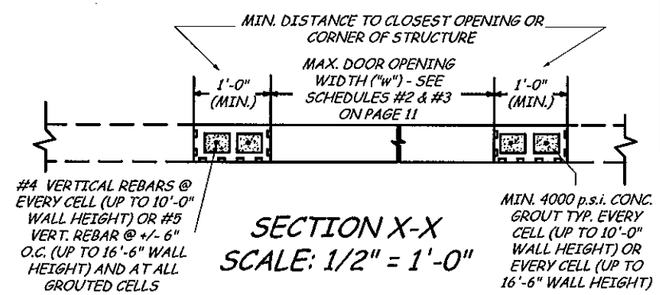


SECTION Y-Y
SCALE: 1/2" = 1'-0"

NOTE: BARS MAY BE CONTINUOUS AS OPTIONAL TO SPLICED

NOTE: SAMPLES WERE TESTED USING 16" HIGH CONCRETE FOOTING W/ 3 PIECES #5 REBAR CONTINUOUS ON 3-WIRE SUPPORTS. FOUNDATION PLANS ARE TO BE PREPARED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT BASED ON SITE-SPECIFIC CONDITIONS.

NOTE: FOUNDATION DOWEL REBARS MAY BE PLACED BEFORE OR AFTER CONCRETE FOOTING IS POURED.



SECTION X-X
SCALE: 1/2" = 1'-0"

Approved as complying with the Florida Building Code
Date 12/01/2011
NOA# 10-0816.19
Miami Dade Product Control
By

TYPICAL VOBB® REINFORCED CONCRETE BLOCK WALL SYSTEM- CASE 6: WALL W/ DOOR OPENING W/ CONCRETE TIE BEAM AT TOP, W/ INTERMEDIATE REINFORCED CONCRETE HEADER POURED TOGETHER WITH TIE BEAM BELOW

SHEET 8
18

P.E. SEAL/SIGNATURE/DATE
9/2/11

VOBB® DRYSTACK CONCRETE BLOCK WALL
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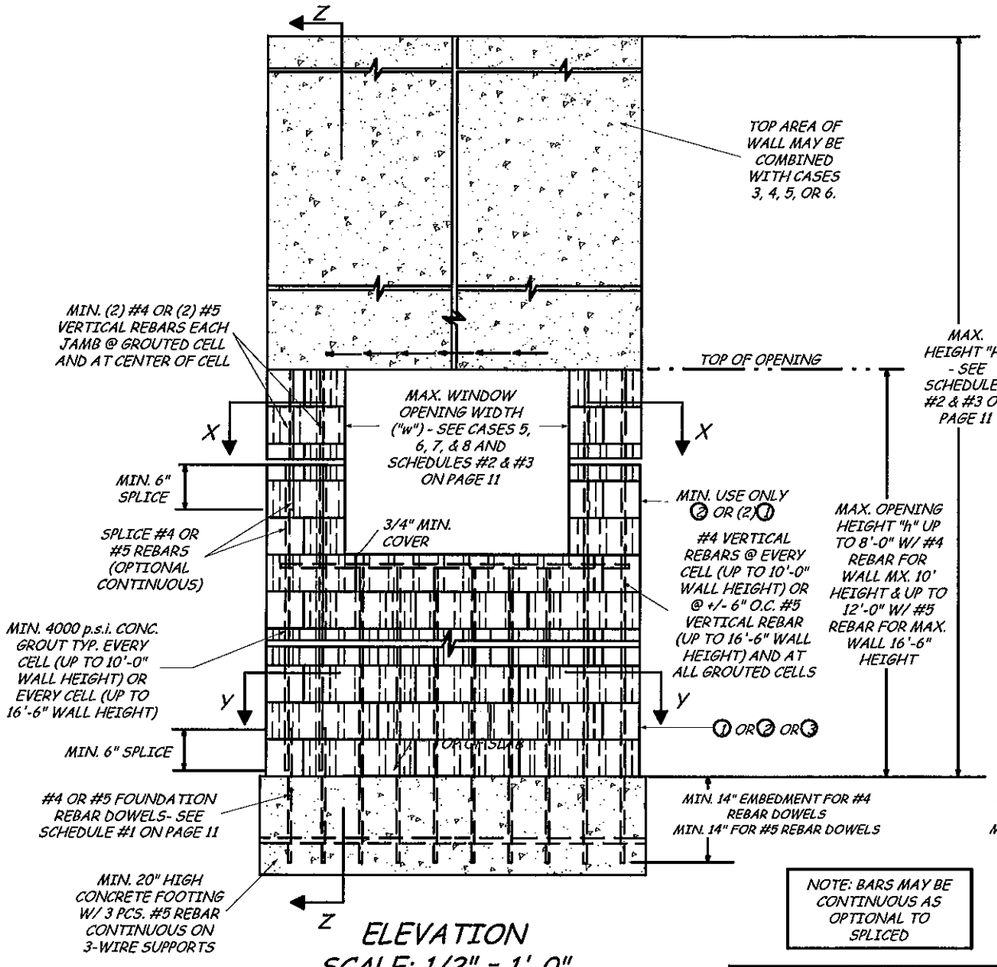
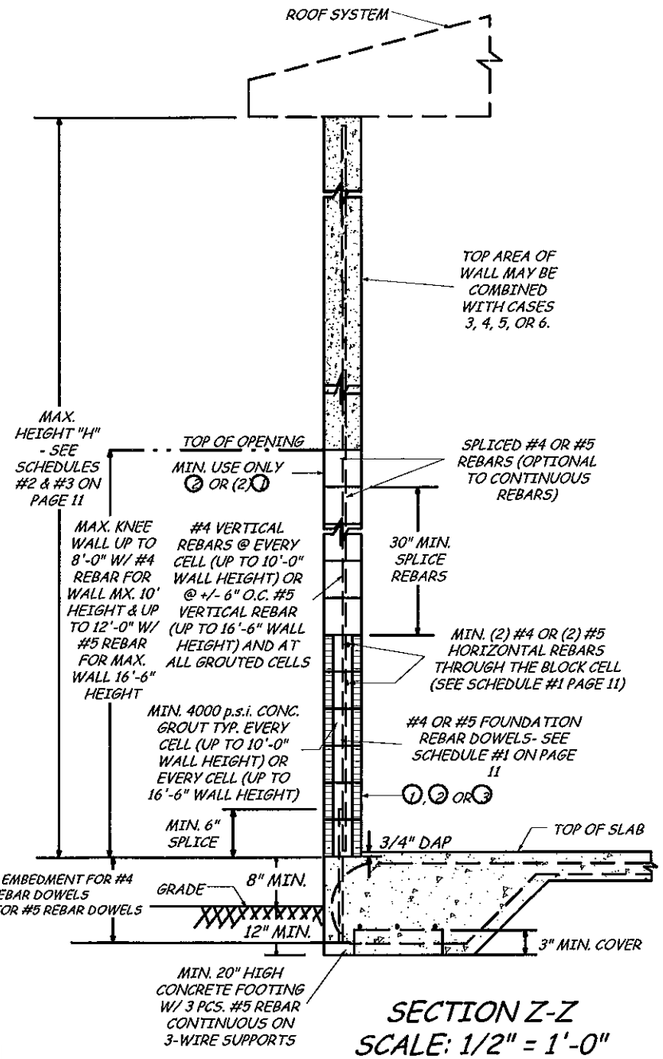


ELEVATION
SCALE: 1/2" = 1'-0"

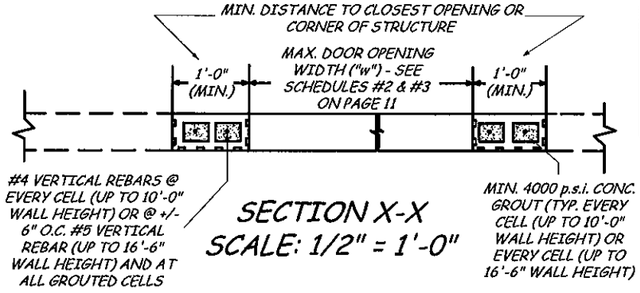
NOTE: BARS MAY BE CONTINUOUS AS OPTIONAL TO SPLICED

NOTE: SAMPLES WERE TESTED USING 16" HIGH CONCRETE FOOTING W/ 3 PIECES #5 REBAR CONTINUOUS ON 3-WIRE SUPPORTS. FOUNDATION PLANS ARE TO BE PREPARED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT BASED ON SITE-SPECIFIC CONDITIONS.

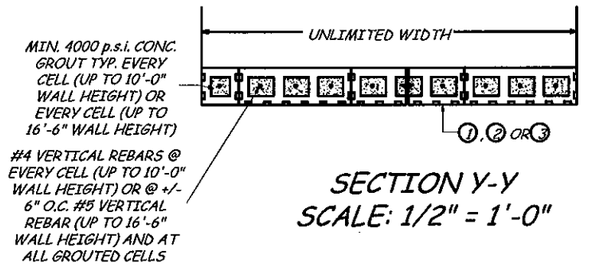
NOTE: FOUNDATION DOWEL REBARS MAY BE PLACED BEFORE OR AFTER CONCRETE FOOTING IS POURED.



SECTION Z-Z
SCALE: 1/2" = 1'-0"



SECTION X-X
SCALE: 1/2" = 1'-0"



SECTION Y-Y
SCALE: 1/2" = 1'-0"

Approved as complying with the Florida Building Code
Date 12/01/2011
NOA# 10-0816.19
Miami Dade Product Control
By

TYPICAL VOBB® REINFORCED CONCRETE BLOCK WALL SYSTEM- CASE 7 WALL W/ WINDOW OPENING COMBINED W/ CASES 3 THROUGH 6 AT TOP

VOBB® DRYSTACK CONCRETE BLOCK
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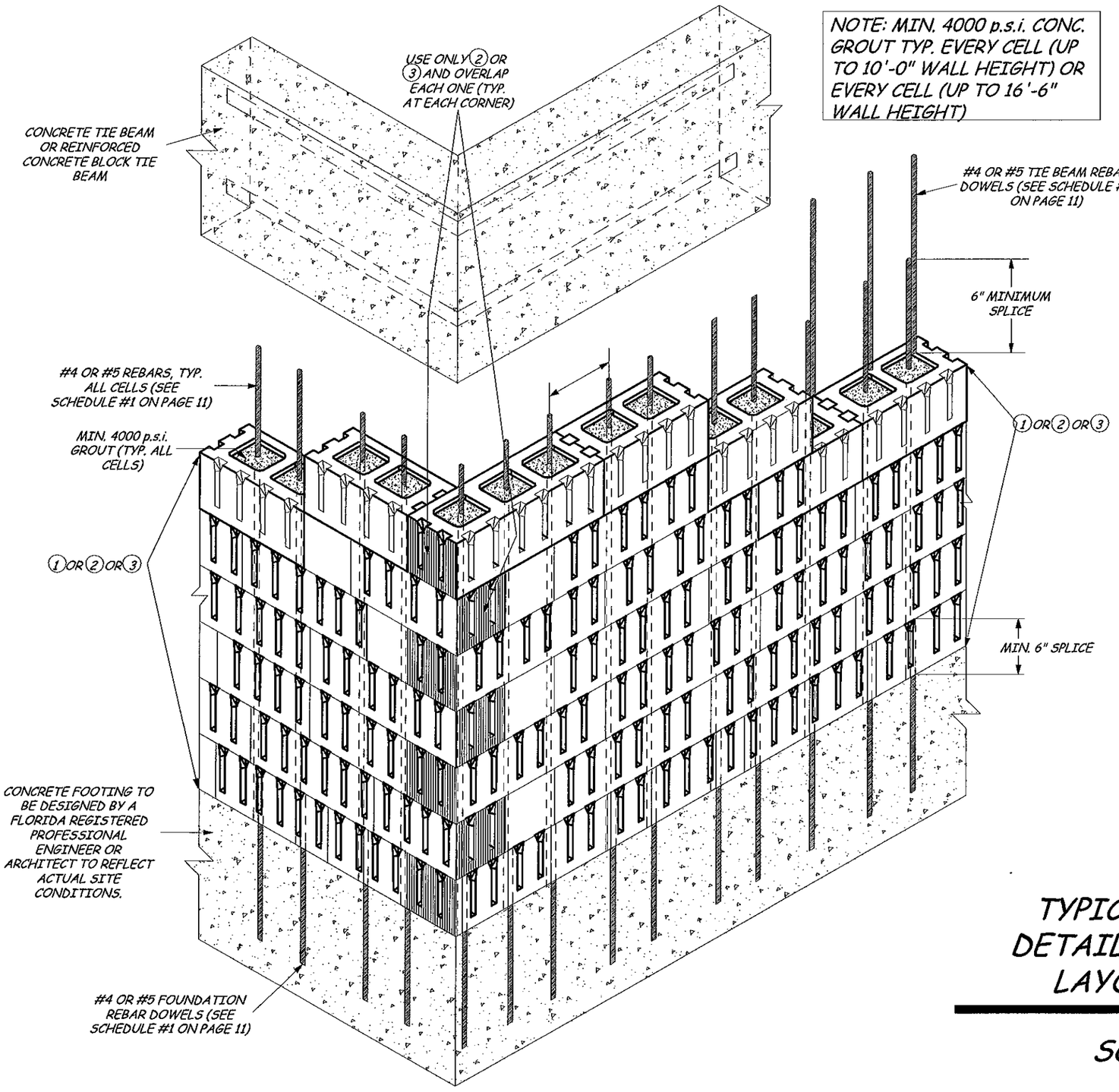
9/12/11

SHEET 9 / 18



NOTE: MIN. 4000 p.s.i. CONC. GROUT TYP. EVERY CELL (UP TO 10'-0" WALL HEIGHT) OR EVERY CELL (UP TO 16'-6" WALL HEIGHT)

NOTE: CONCRETE TIE BEAM AND REBAR REQUIREMENTS ARE TO BE DESIGNED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT.

NOTE: REBARS MAY BE CONTINUOUS AS OPTIONAL TO SPLICED.

Approved as complying with the Florida Building Code
Date 12/01/2011
NOA# 10-0816.19
Miami Dade Product Control
By

TYPICAL VOBB® CORNER DETAIL W/ VERTICAL BARS LAYOUT (ISOMETRIC)

SCALE: 1" = 1'-0"

VOBB® DRYSTACK CONCRETE BLOCK WALL
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SCHEDULE #1

MINIMUM REBAR REQUIREMENTS FOR VOBB® REINFORCED CONCRETE BLOCK WALL SYSTEM GIVEN WALL HEIGHT "H"

MAXIMUM WALL HEIGHT "H" (ft.)	VERTICAL REBAR AT EACH GROUTED CELL	TOP HORIZONTAL REBAR REQUIREMENTS ▲	FOUNDATION DOWELS REQUIREMENTS	TIE BEAM DOWEL REQUIREMENTS
10'-0" OR LESS	#4	#4	#4	#4
MORE THAN 10'-0" UP TO 16'-6"	#5	#5	#5	#5

▲ MINIMUM (2) REBARS REQUIRED WHEN NO TIE BEAM IS USED.

SCHEDULE #2

MAXIMUM ALLOWABLE SIDE WALL HEIGHT "H" SCHEDULE FOR SIDE WALLS SUBJECT ONLY TO TRANSVERSE LOADS DUE TO WIND (NON BEARING WALLS). *FOR A GIVEN OPENING WIDTH "w". VALID FOR SIDE WALLS REINFORCED WITH #4 REBARS.

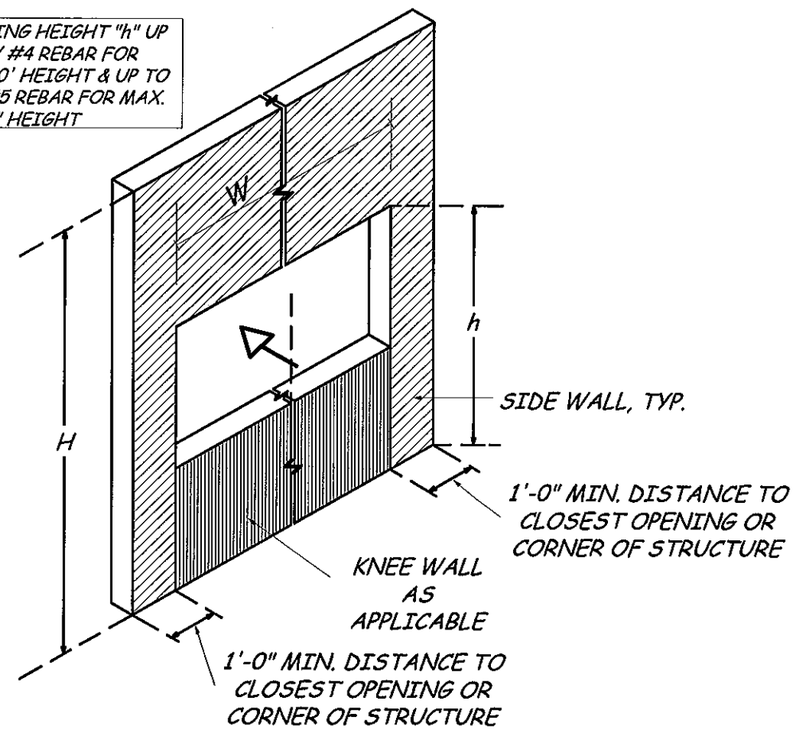
DESIGN WIND LOAD "W" (p.s.f.)	MAXIMUM OPENING WIDTH "W" (ft.)														
	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
+ 70	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	"H"
- 75	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	"H"

SCHEDULE #3

MAXIMUM ALLOWABLE SIDE WALL HEIGHT "H" SCHEDULE FOR SIDE WALLS SUBJECT ONLY TO TRANSVERSE LOADS DUE TO WIND (NON BEARING WALLS). *FOR A GIVEN OPENING WIDTH "w". VALID FOR SIDE WALLS REINFORCED WITH #5 REBARS.

DESIGN WIND LOAD "W" (p.s.f.)	MAXIMUM OPENING WIDTH "W" (ft.)														
	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
+ 70	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	"H"
- 75	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	"H"

MAX. OPENING HEIGHT "h" UP TO 8'-0" W/ #4 REBAR FOR WALL MX. 10' HEIGHT & UP TO 12'-0" W/ #5 REBAR FOR MAX. WALL 16'-6" HEIGHT



* SIDE WALLS WITH MAXIMUM ALLOWABLE SIDE WALL HEIGHT FOR A GIVEN MAXIMUM OPENING WIDTH PROVIDED BY ABOVE SCHEDULES SHALL ALSO BE VERIFIED IN CASE THEY WERE BEARING SIDE WALLS FOR AXIAL LOADS DUE TO WIND, DEAD OR LIVE LOAD APPLIED BY ROOF STRUCTURE COMBINED WIDTH TRANSVERSE WIND LOADS. USING MAXIMUM ALLOWABLES INDICATED ON GENERAL NOTES 4.3 ON SHEET 1 AND USING LOAD COMBINATION PER CHAPTER 2 OF ASCE 7-02.

Reinforcement and Width of all Side Wall sections shall be designed not to exceed the allowable compression strength of the concrete blocks or the tension strength of the reinforcement by the site specific Engineer of Record.

Approved as complying with the Florida Building Code
Date 12/01/2011
NOA# 10-0816.19
Miami Dade Product Control
By

SHEET 11
18

P.E. SEAL/SIGNATURE/DATE

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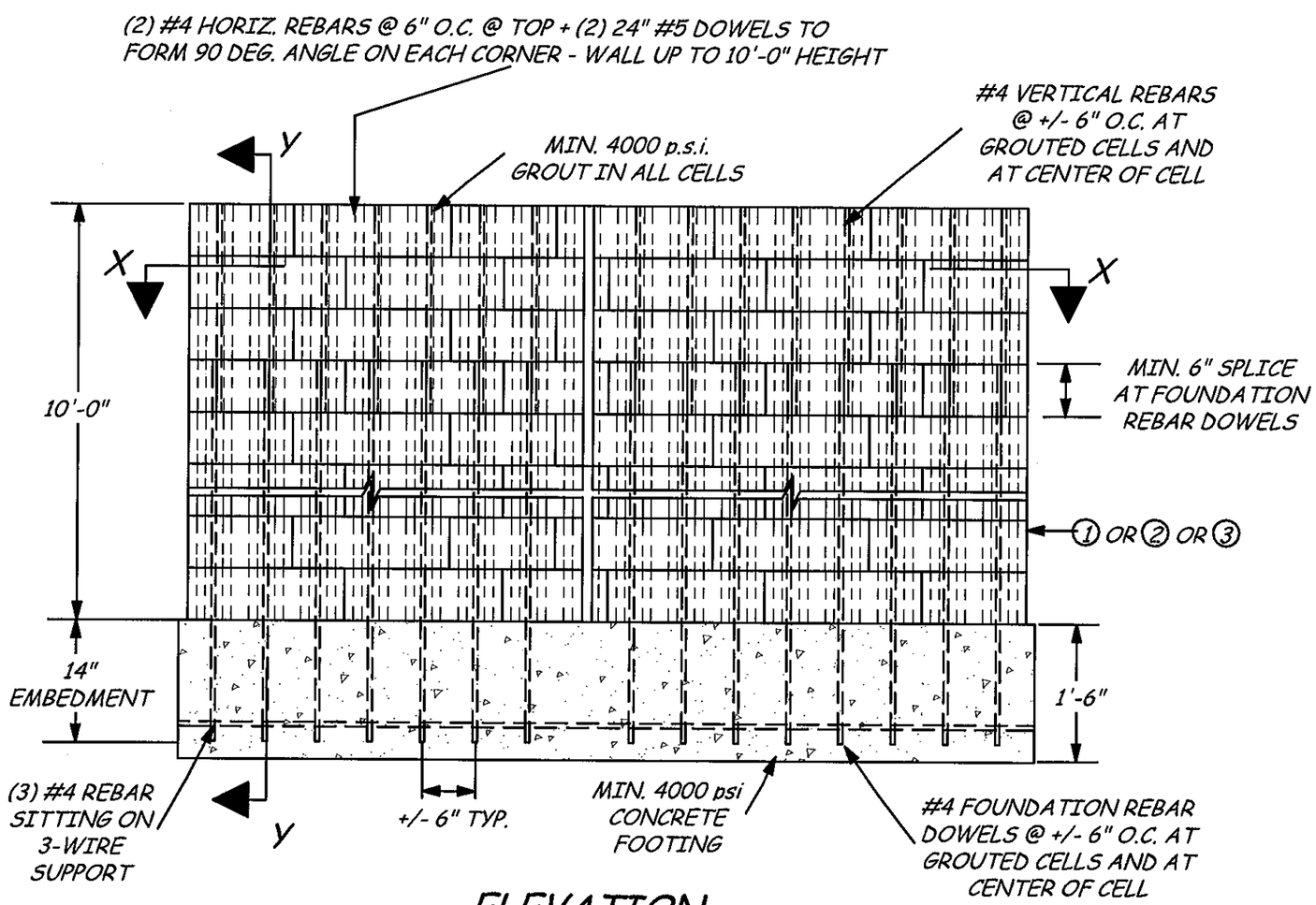
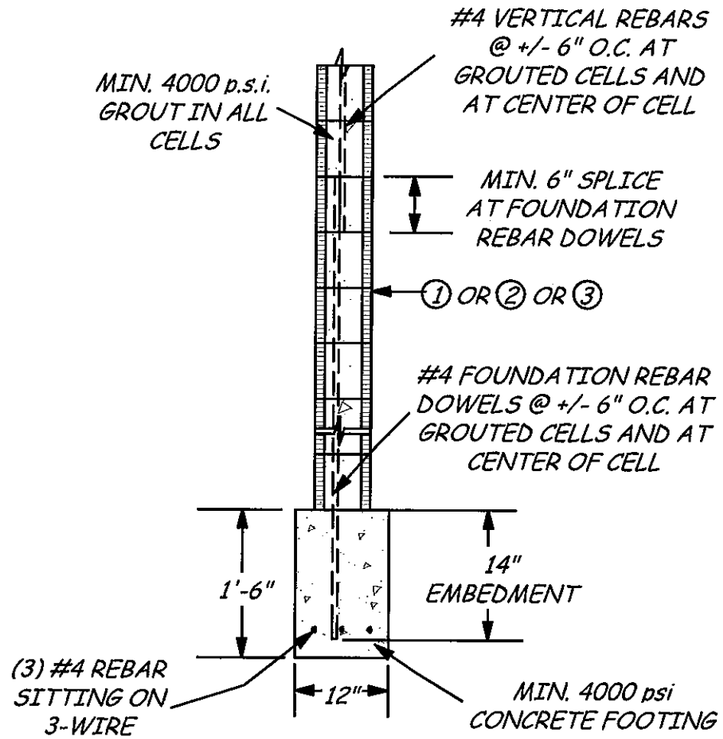
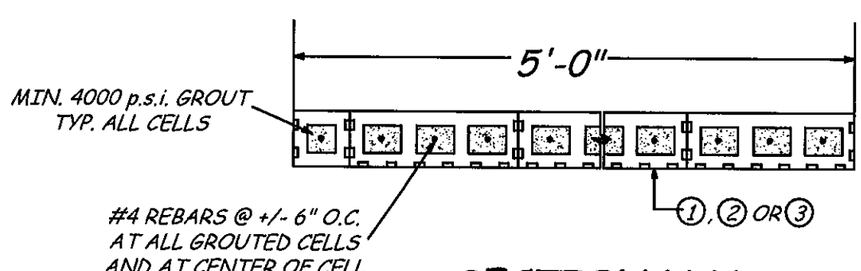


ELEVATION
SCALE: 3/4" = 1'-0"



SECTION Y-Y
SCALE: 3/4" = 1'-0"



SECTION X-X
SCALE: 3/4" = 1'-0"

TESTING SPECIMENS
A-1, A-2 AND A-3

10'-0" MAX. HIGH WALL WITH #4 REBARS @ 6" O.C. ALL CELLS TO BE FILLED W/ 4000 PSI CONCRETE WITH MAX. ALLOWABLE PRESSURE OF +70 / - 75 PSF.

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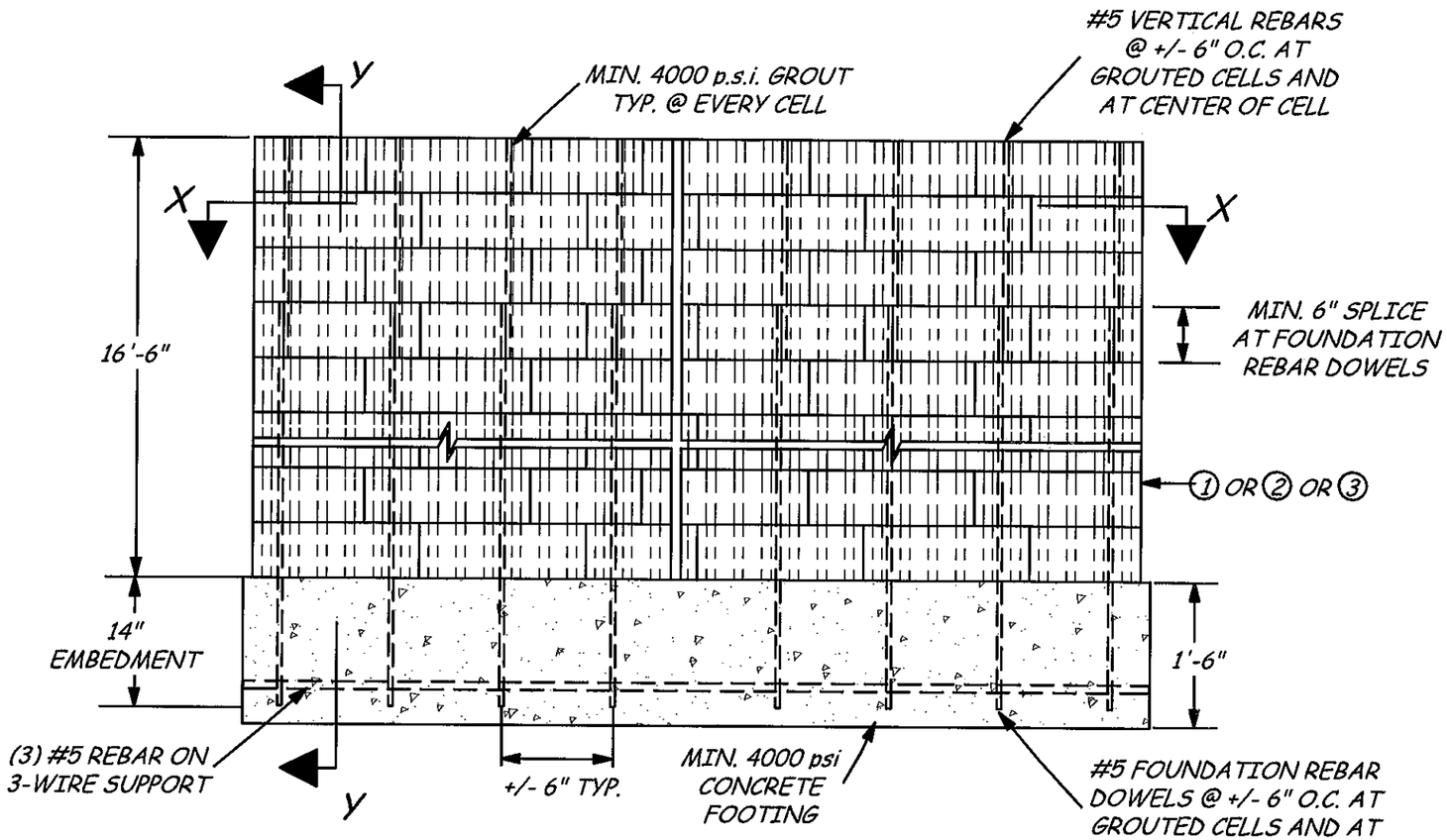
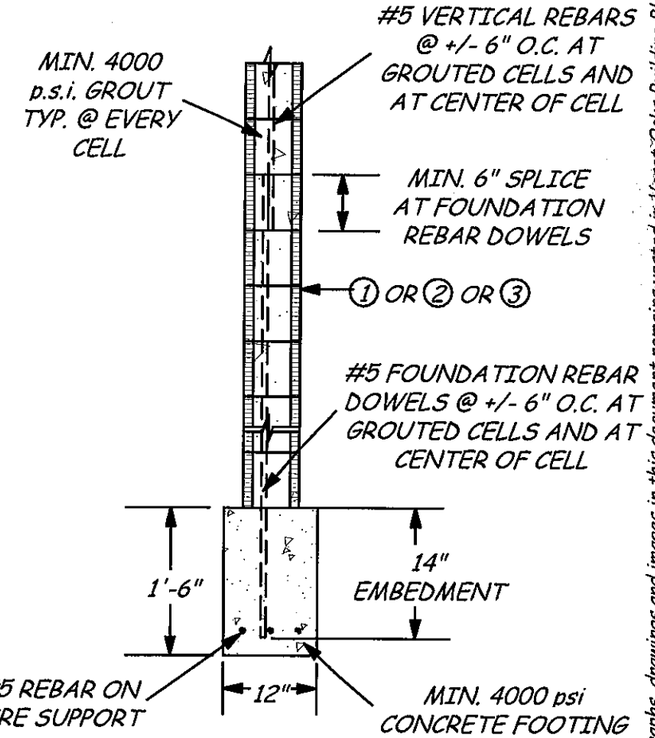


16'-6" ELEVATION
SCALE: 3/4" = 1'-0"



SECTION Y-Y
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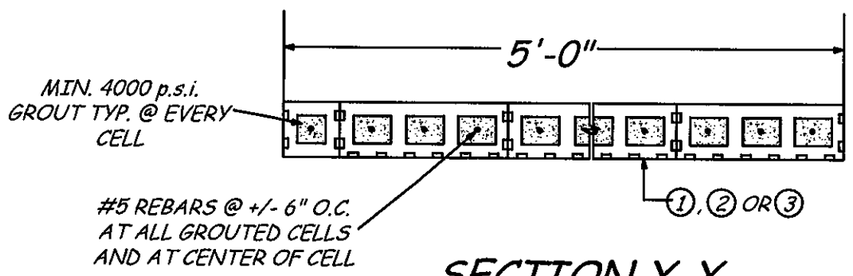

SECTION X-X
SCALE: 3/4" = 1'-0"

TESTING SPECIMENS B-1, B-2 AND B-3

16'-6" MAX. HEIGTH WALL WITH #5 REBARS @ 6" O.C. ALL CELLS FILLED W/ 4000 psi CONCRETE. MAX. ALLOWABLE PRESSURE + 70 / - 75 PSF.

Approved as complying with the Florida Building Code
Date 12/01/2011
NOA# 10-0816.19
Miami Dade Product Control
By

SHEET 13
18

P.E. SEAL/SIGNATURE/DATE

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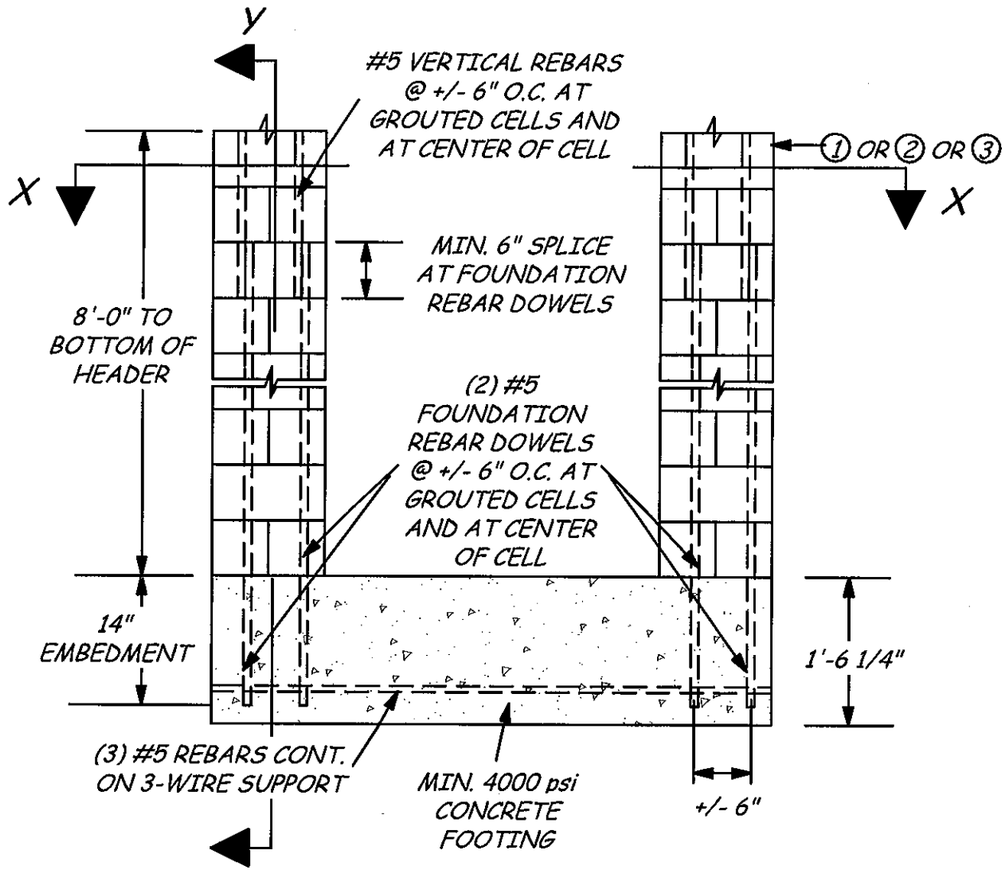
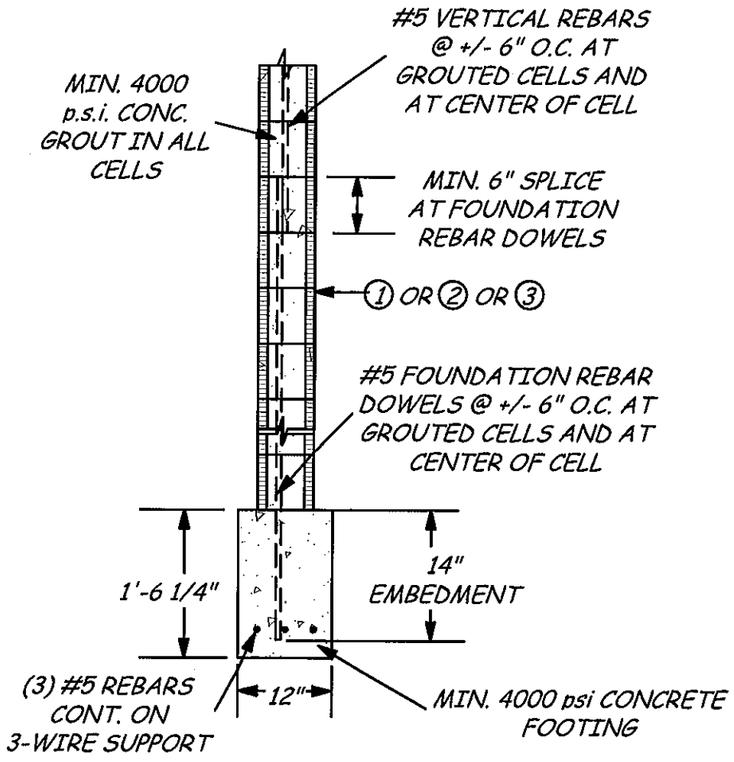
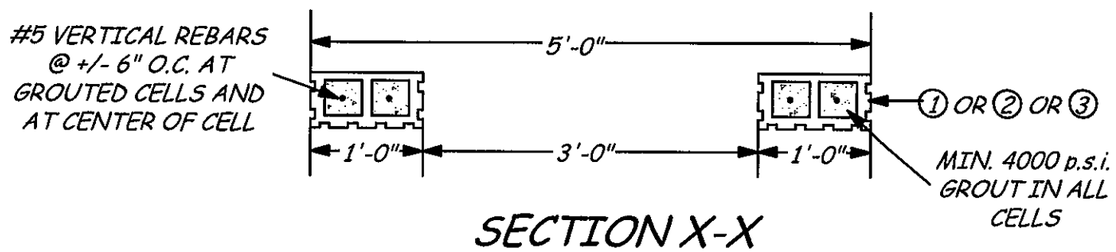


ELEVATION
SCALE: 3/4" = 1'-0"



SECTION Y-Y
SCALE: 3/4" = 1'-0"



SECTION X-X
SCALE: 3/4" = 1'-0"

TESTING SPECIMEN C-1

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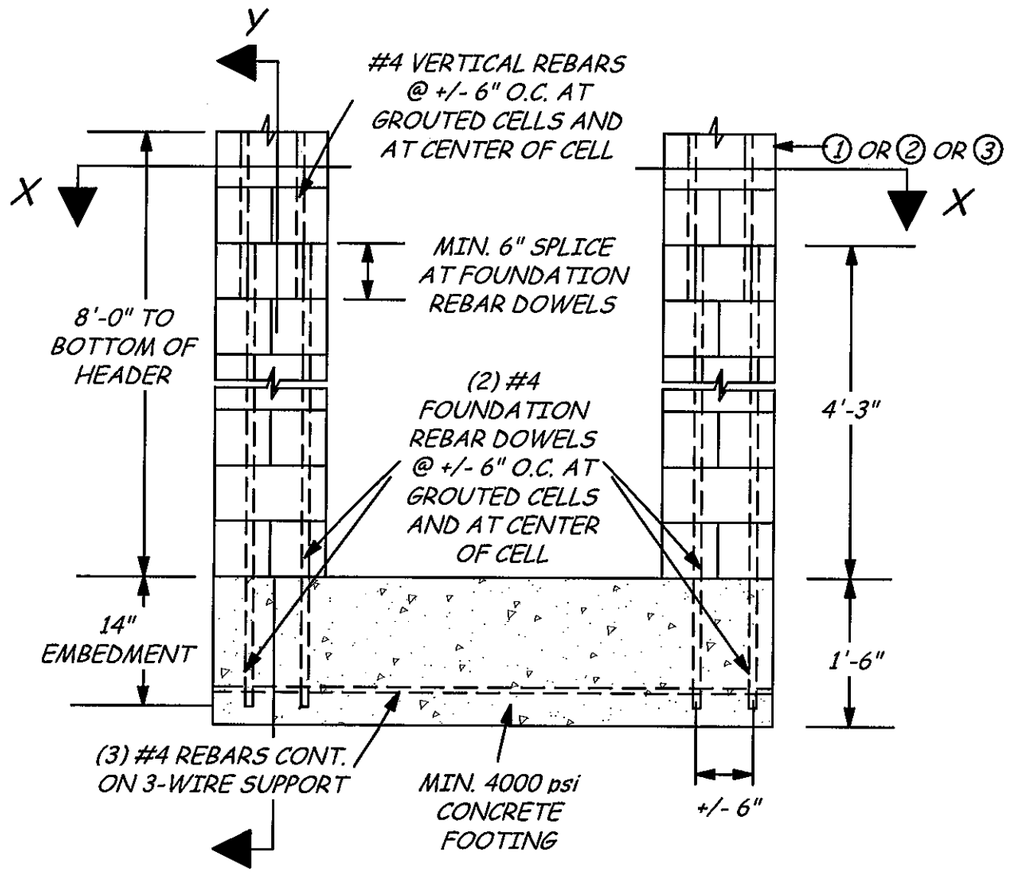
Kathe D Lewis
9/12/11



ELEVATION
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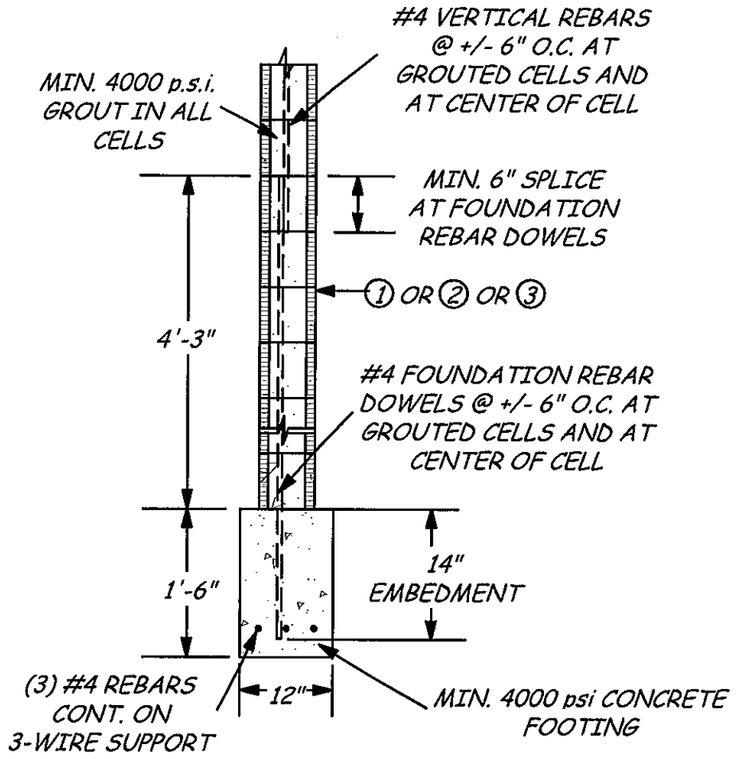
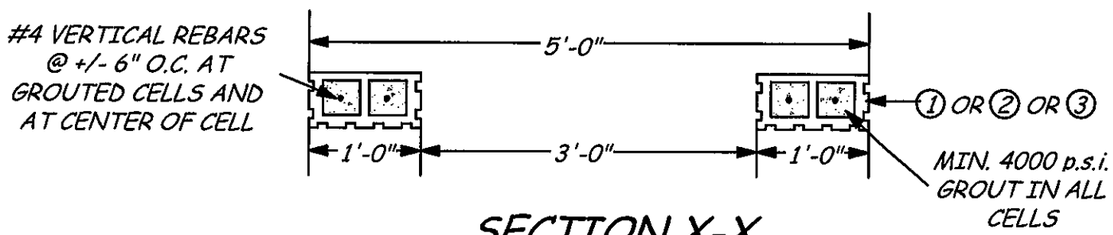


SECTION Y-Y
SCALE: 3/4" = 1'-0"



SECTION X-X
SCALE: 3/4" = 1'-0"

TESTING SPECIMEN D-1

Approved as complying with the Florida Building Code
Date 12/01/2011
NOA# 10-0816.19
Miami Dade Product Control
By Helen A. Mahon

SHEET 15
18

P.E. SEAL/SIGNATURE/DATE

VOBB® DRYSTACK CONCRETE BLOCK WALL
VEROT OAKS BUILDING BLOCKS INC.
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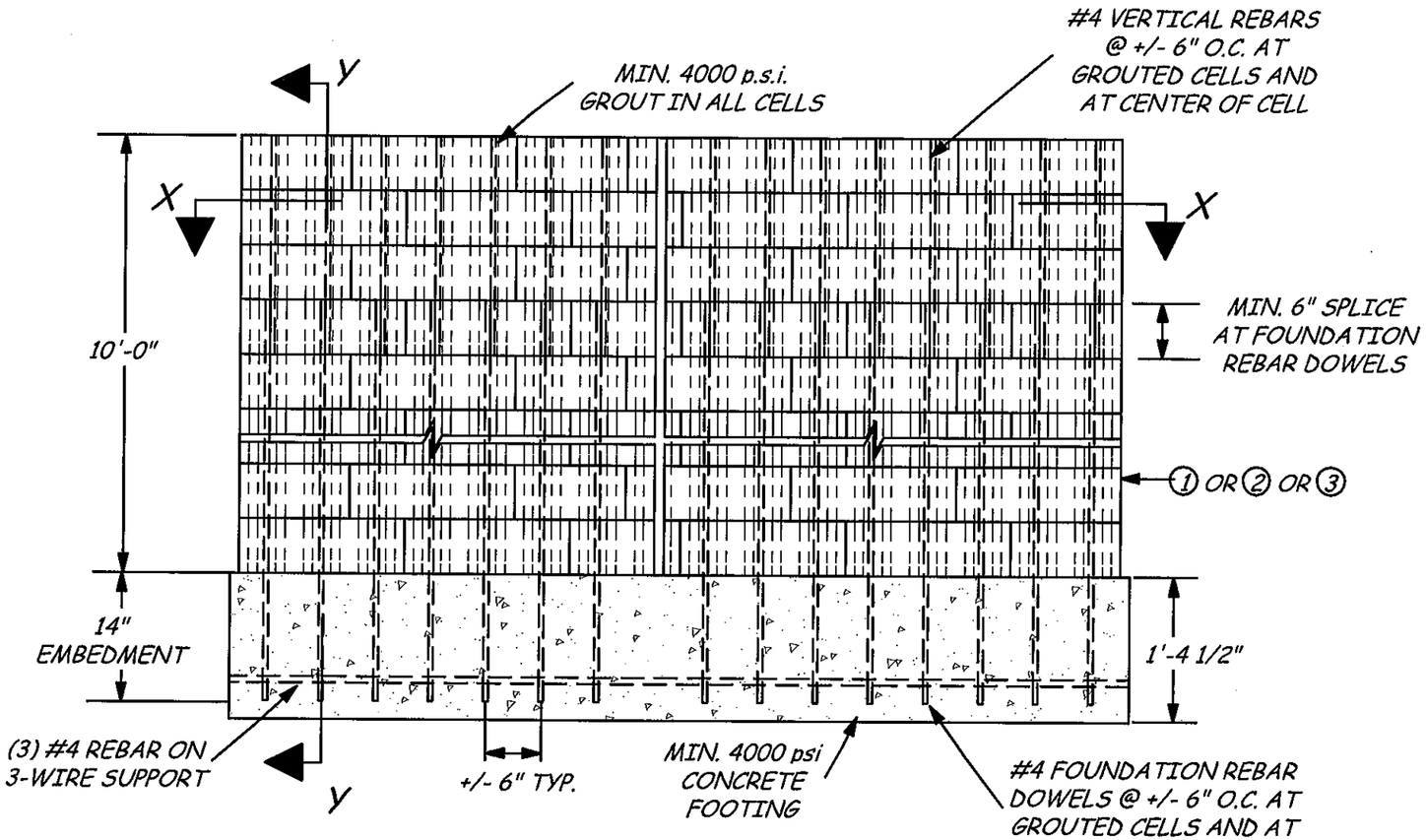
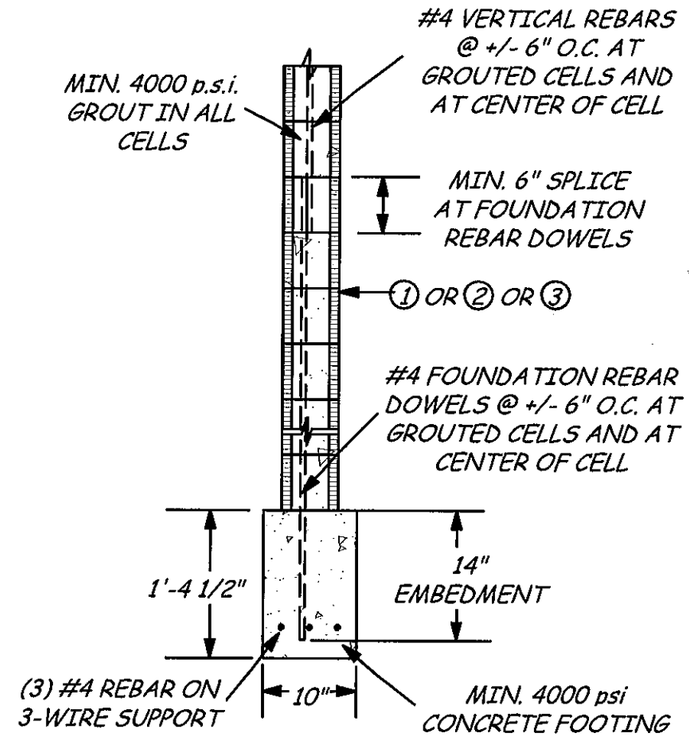
LEWIS CONSULTING SERVICES, INC.
P.O. BOX 1173 PALMETTO, FL. 34220
(941) 722-8145
LEWCONSULTING@AOL.COM *
LEWISCONSULTINGSERVICES.COM

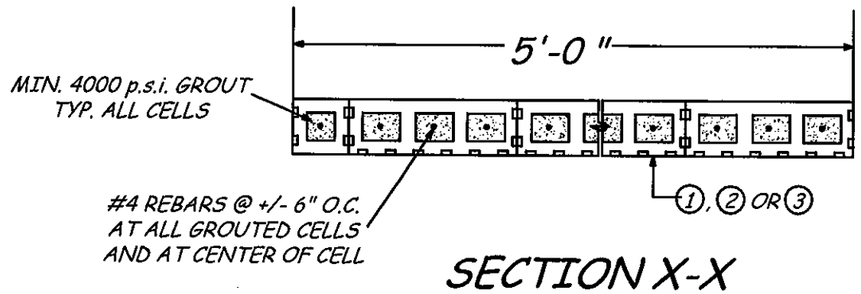
REVISED 08/16/11



ELEVATION
SCALE: 3/4" = 1'-0"



SECTION Y-Y
SCALE: 3/4" = 1'-0"



SECTION X-X
SCALE: 3/4" = 1'-0"

TESTING SPECIMEN E-1

Approved as complying with the
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Date 12/01/2011
NOA# 10-0816.19
Miami Dade Product Control
By

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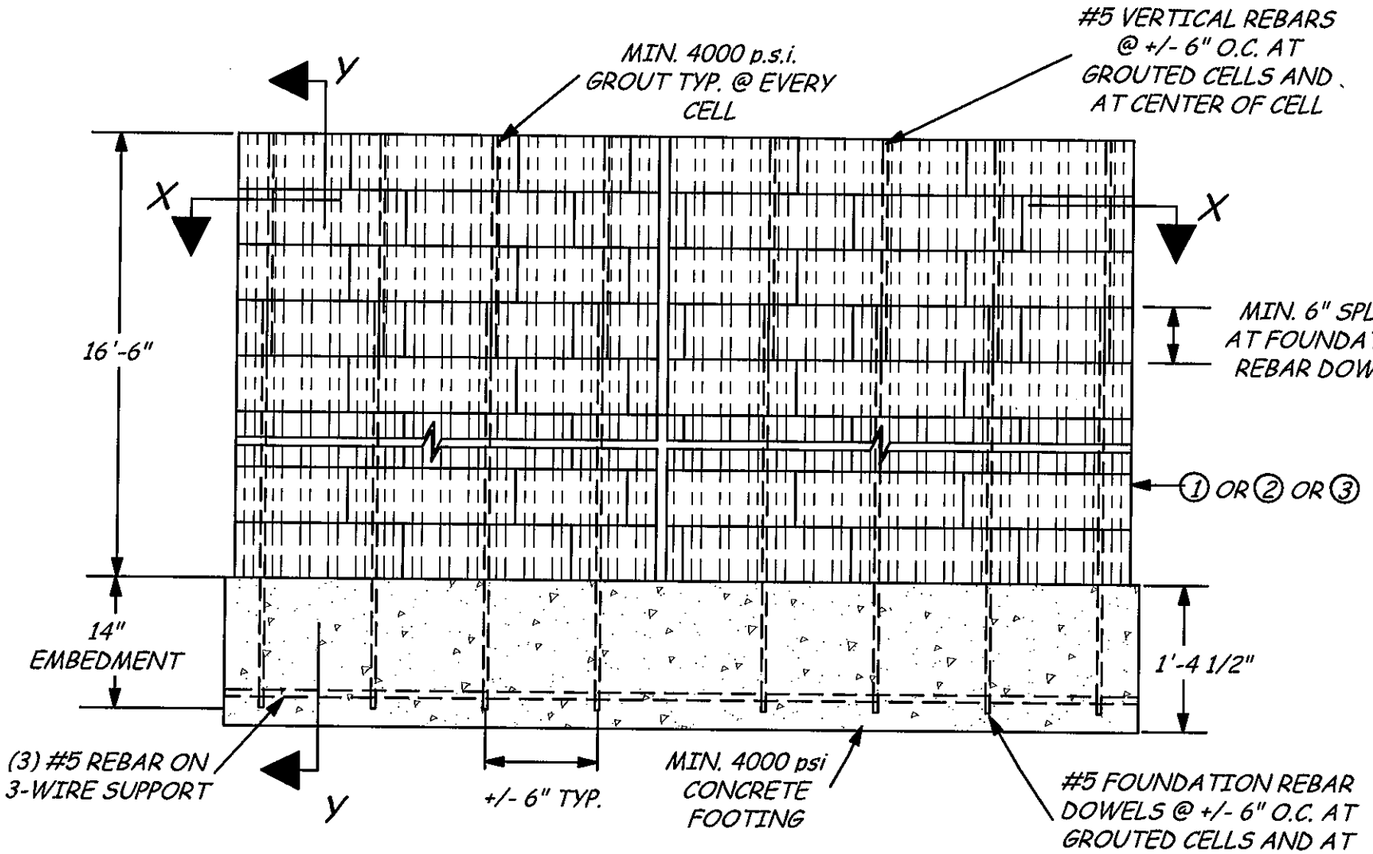
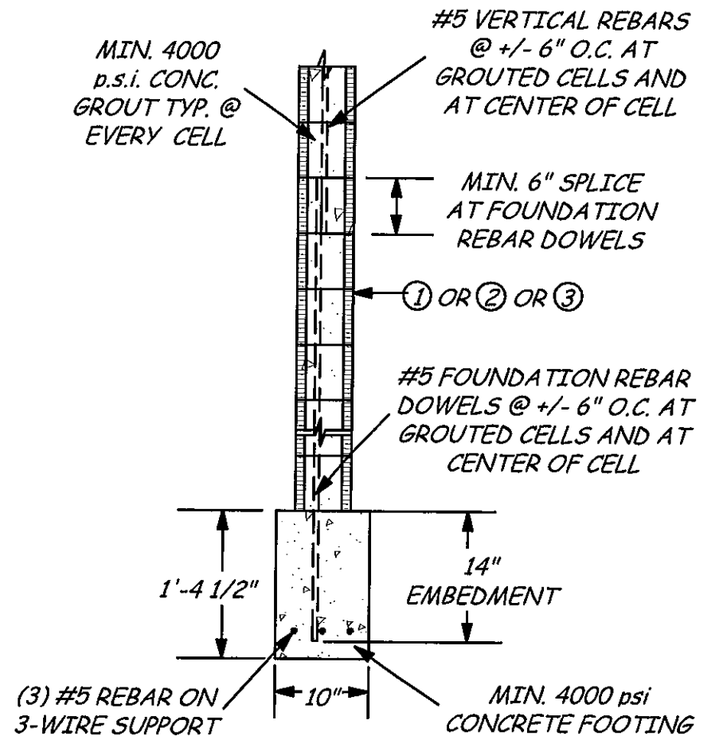


ELEVATION
SCALE: 3/4" = 1'-0"



SECTION Y-Y
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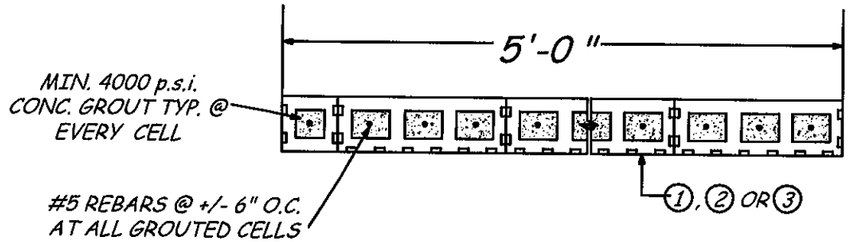

SECTION X-X
SCALE: 3/4" = 1'-0"

TESTING SPECIMENS F-1 & H-1

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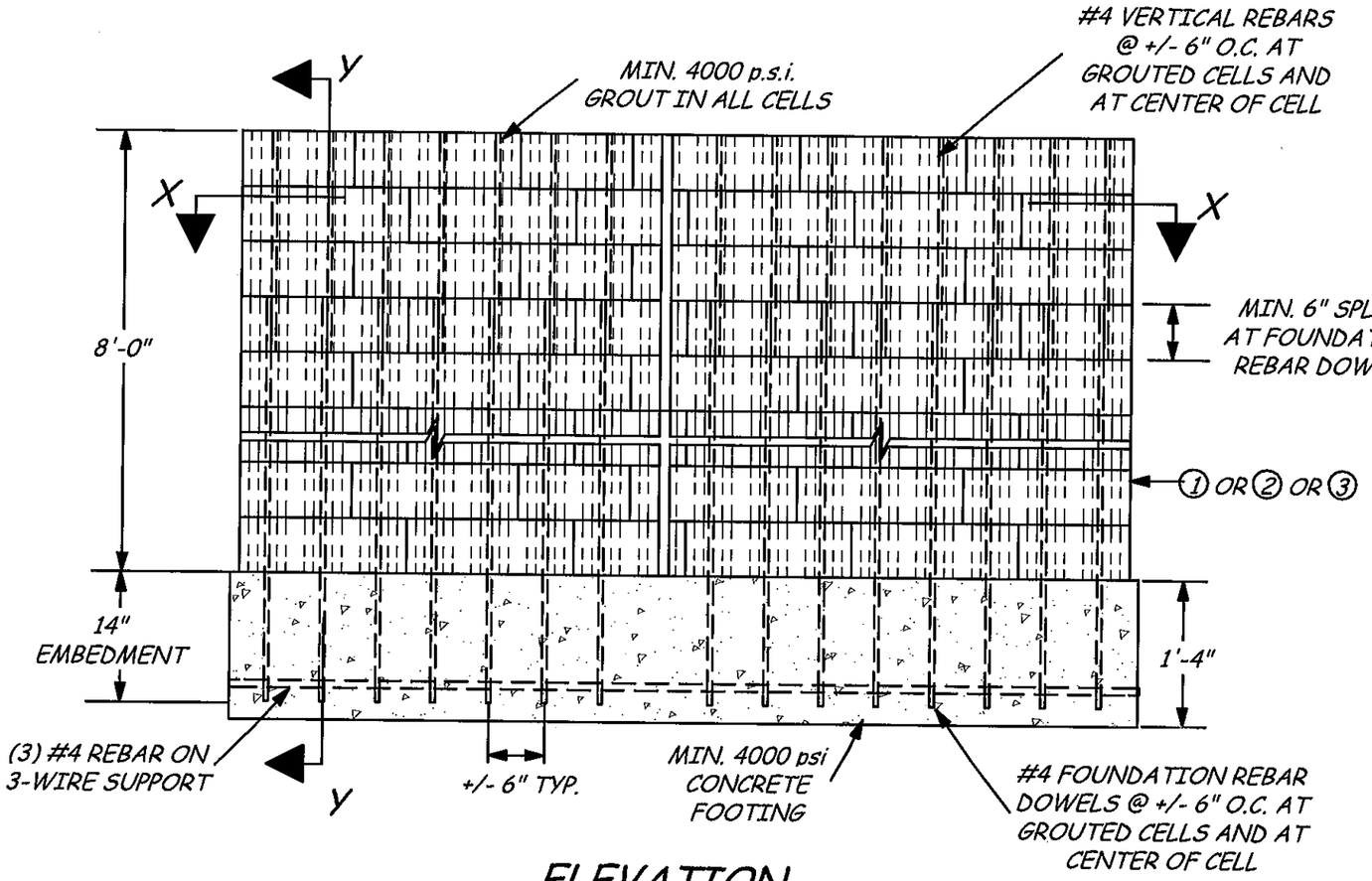
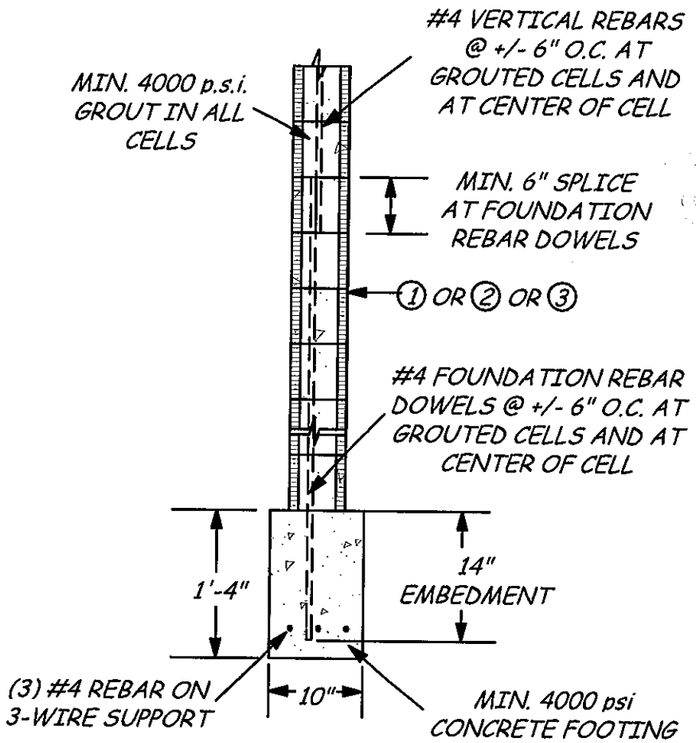
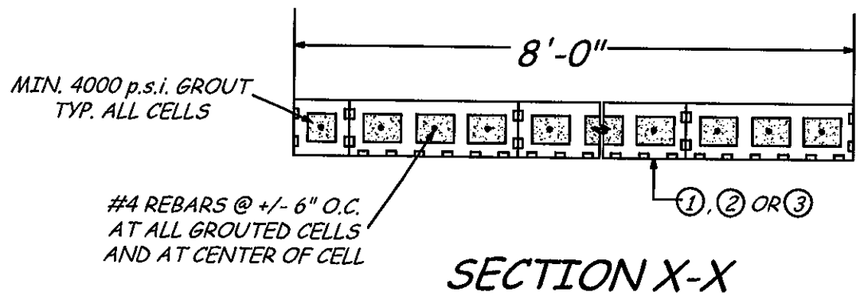


ELEVATION
SCALE: 3/4" = 1'-0"



SECTION Y-Y
SCALE: 3/4" = 1'-0"



SECTION X-X
SCALE: 3/4" = 1'-0"

TESTING SPECIMEN G-1

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By Helen A. Martin

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